Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

NINE YEARS OF HI-LO PRICES IN THIS ISSUE

February 27, 1961

PUBLISHED IN TWO SECTIONS
SECTION ONE

Baker

ZINC ACETATE

Technical Crystal

Baker

J. T. BAKER CHEMICAL CO.
PHILLIPSBURG, N. J.
New York • Chicago • Philadelphia • Los Angeles

CARBIDE's

Ethylene Oxide

RECEIVED
FEB 27 1961
THE CHEMISTS' CLUB LIBRARY
270 Park Avenue, New York 17, New York

UNION CARBIDE CHEMICALS COMPANY
DIVISION OF UNION CARBIDE CORPORATION

HIGH QUALITY

SODIUM SULPHATE

PRIOR CHEMICAL CORPORATION
420 LEXINGTON AVENUE
NEW YORK 17, N. Y.

CABLE: PRIORCHEM NEW YORK
PHONE: LExington 2-9811

Pennsalt

METHYLAMINES

Mono-, Di- and Trimethylamine; Anhydrous and Aqueous

Industrial Chemicals Division
PENNSALT CHEMICALS CORPORATION
3 Penn Center, Philadelphia 2, Pa.

Pennsalt Chemicals

Stop Corrosion with oil-soluble Alkaterge-T. Outstanding anti-corrosive properties due to powerful adhesion to metallic and other hydrophilic surfaces. A force of 10,500 psi is needed to break this bond—highest of any compound tested! For more information write:

Nitroparaffins Department
COMMERCIAL SOLVENTS CORPORATION
260 Madison Avenue, New York 16, N. Y. • Offices in principal cities

CSC

BORAX | BORIC ACID | LITHIUM | BORON Compounds | POTASH

U.S. BORAX

630 SHATTO PLACE, LOS ANGELES 5, CALIFORNIA

Regional Offices in: CHICAGO • NEW YORK • ATLANTA

NOW . . . from the first urea plant in the industrial East!

Mathieson Urea

Industrial grade, crystals and pellets

PLANT PROXIMITY

Mathieson Urea is produced in the heart of the industrial East at North Claymont, Delaware, between Philadelphia and Wilmington. Consumers are serviced swiftly over turnpike and main-line rail routes. At the same time, nearby major port cities provide rapid export and coastal service on a wide choice of vessels and barges.

PRODUCT QUALITY

Mathieson Urea is manufactured under rigid quality controls to exacting specifications by the famous Montecatini process. The result is a consistently high-purity product that meets the standards established for all Mathieson chemicals.

CUSTOMER SERVICE

Customer requirements receive alert, day-to-day follow-up. Olin Mathieson's wide experience in the marketing of chemicals, its seasoned staff of technical service specialists and its network of district sales offices all combine to provide well-integrated customer service.

FOR FURTHER INFORMATION

Contact your Olin Mathieson district sales office or write the address below.

Olin Mathieson

Chemicals Division, Baltimore 3, Md.

Ammonia • Carbon Dioxide • Caustic Soda • Chlorine • Hydrazine and Derivatives • Hypochlorite Products • Methanol • Muriatic Acid • Nitric Acid • Soda Ash • Sodium Bicarbonate • Sodium Chlorate • Sodium Chlorite Products • Sodium Methylate • Sodium Nitrate • Sulfur (Processed) • Sulfuric Acid • Urea

9460

RECEIVED
FEB 2 7 196
THE CHEMISTS' CLUB
LIBRARY

Oil Paint and Drug Reporter

Vol. 179 No. 9 30 Church St., New York 7, N. Y. February 27, 1961

US BORAX GETS A NEW PRESIDENT: Hugo Riemer (left), former executive vice-president, who has been elected president and chief executive officer of United States Borax & Chemical Corporation, Los Angeles, to succeed James M. Gerstley (right). Mr. Gerstley, who as vice-chairman of the board will be in charge of long-range planning for US Borax, asked for a less-demanding role with the company so that he could devote more time to community and public relations activities. Mr. Riemer joined US Borax in 1958 after being associated with Allied Chemical Corporation for twenty-three years.

Chemical Firms With Identical Bids May Soon Have to Tell 'How Come'

Chemical companies which submit identical bids for government contracts are likely to be asked some embarrassing questions soon by congress. The chemical people are not leading the big identical-bid parade that is gaining attention these days, but there have been enough suspicious bids offered by them to cause the Kefauver antitrust investigating committee of the senate to look into the matter on the basis of information supplied by the Department of Defense.

MARKET PLANS MANAGER: Edwin M. Ott, appointed manager of marketing planning by Pennsalt Chemicals Corporation, Philadelphia.

The chemical business comprises only a small part of the overall list, yet some of the most prominent firms in the chemical trade are on it.

Due to come in for some probing, along with the chemical industry, are the following lines: aluminum, electrical equipment, steel, cement and rubber.

House Bill Would Have Justice Notified

Meanwhile, in the house, legislation has been introduced directing government units to notify the Department of Justice of all cases of identical bidding—from any industry.

The listing is now being printed and is to be turned over by the committee to the Justice department and the Federal Trade Commission for such action as may be considered warranted. Also, some of the industries will be subject to special attention by the Kefauver committee.

The Kefauver committee first became interested in the problem of identical bidding when it began probing bids received by Tennessee Valley Authority for electrical equipment in 1950. It dropped the matter when the Justice department moved in with grand jury proceedings against the electrical manufacturers, but is going into it again since the electrical manufacturers never came to trial, but decided to plead guilty or no contest.

In interviews, Sen. Estes Kefauver of Tennessee has said that he wants to know how it was possible for the electrical man-

—Continued on page 49

Tar Distillation Unit To Be Among Biggest

What will reportedly be one of the nation's largest tar distillation units has just been slated for construction at Bethlehem Steel Company's Sparrow Point, Md., works.

The unit is expected to be in operation late this year, shipping recovered chemicals to Allied Chemical Corporation's processing facilities in Philadelphia.

As an efficient complement to existing facilities, the new distillation unit will have a capacity to process 50 million gallons of tar a year. The resulting fraction will contain an estimated 42 million pounds of naphthalene, plus tar acids.

Bethlehem is also moving to increase its steel production at Sparrow Point via increased use of oxygen and nitrogen. Air

—Continued on page 32

Pollution, Water Conversion Topics of Kennedy Message

A greatly stepped-up program of federal control over air and water pollution, and research in the conversion of saline and sea waters were among recommendations submitted to congress last week by President Kennedy in a special message on natural resources.

Charging that "industry is lagging far behind in its treatment of wastes," Mr. Kennedy said that this year a national total of $350 million will be spent from all sources on municipal waste-treatment work, whereas $600 million of construc-

—Continued on page 54

Polyformaldehyde Resin: What Will DuPont Do in Face of Threat By Celanese and Others-to-Come?

Polyformaldehyde resin—once thought to be roped, tied and branded as the particular animal of E. I. duPont de Nemours & Co.—may turn out to be one of the biggest mavericks on the chemical range. DuPont, having spent some $50 million in developing "Delrin," its polyformaldehyde resin, has been assumed right along to have a virtually impregnable patent position.

But Celanese Corporation of America, which for months has been maintaining a stony silence in the face of increasing reports that it is interested in the field, finally made a clean breast of it all last week at New York's posh "21" Restaurant: Not only is Celanese interested, but its "Celcon" (which the company terms an "acetal copolymer") is now available from pilot facilities at Clarkwood, Tex.

Celanese Confident of No Infringement

Celanese is confident that it is not infringing any duPont patents, claiming (1) that trioxane, rather than formaldehyde, is used as the starting material, and (2) that the material is copolymerized with "another chemical," whereas "Delrin" is not a copolymer.

But duPont is known to have a patent governing the production of polyformaldehyde from trioxane (the cyclic trimer of formaldehyde), and has broad composition-of-matter patents both here and abroad.

Celanese insists that "Celcon's" chemical structure is "different from that of any other material." This structure, it says, "is carefully ordered in the special process developed by Celanese."

DuPont is saying nothing at present, conceding only that it is keeping a watchful eye on developments. Meanwhile, next week it will put into effect a 15-cent-a-pound slash in the price of its "Delrin" resin (OPD, 2/13/61).

There is a division of opinion in the industry concerning the significance of

—Continued on page 55

SUNKIST MANAGER: Charles B. Hansen, Jr., named manager of the products sales department of Sunkist Growers, Los Angeles, in which post he will be in charge of sales of such citrus products as lemon and orange oils, pectins and bioflavonoids.

Chemical Men Disturbed By Attitude Toward Reds

Chemical producers are disturbed over indications that government policy on commercial dealings with Soviet Russia may be softening.

Congressional leaders and top government officials are being warned that it will be a serious mistake to lower the bars against sale of chemical know-how to the Soviets. This government, they are told, should take the initiative to bring this message home to other free world nations.

The chemical industry's opposition to a change in government policy in this area was reaffirmed in a letter to Secretary of Commerce Luther H. Hodges last week from John E. Hull, president of Manufacturing Chemists' Association.

Couched in terms stronger than previous communications on this subject, the Hull letter pointed out that members of the association, as individuals, are very

—Continued on page 43

Vitamins for Animals: CSC Buys Producers

In a major expansion of its animal nutrition operations, Commercial Solvents Corporation has acquired a complex of four companies producing stabilized vitamins for animal feeds.

Price of the transaction was not disclosed, but combined sales of the four firms reportedly are running at about $3 million a year.

The stabilized, oil-soluble vitamin prod- Vitamins, Inc.; Vitaron Chemical Manufacturing Company, and Astrol Products, Inc., all of Garfield, N. J., and Iowa Nutrition Company, Clinton, Iowa. They will be operated as the stabilized vitamins division of CSC.

The stabilized, oil-soluble vitamin products made by the acquired companies will complement CSC's current vitamin and antibiotic operations, a spokesman says. These products include vitamins A, D and

—Continued on page 43

Central Soya to Absorb Glidden Chemurgy Unit

Glidden Company's chemurgy division will become a part of Central Soya Company, Fort Wayne, Ind., on September 1.

Central Soya, which has been operating the division under a three-year lease due to expire August 31, has decided to exercise an option to buy it. Purchase price is reported at $8,550,000.

The chemurgy division manufactures industrial and edible flours and isolated proteins. Its processing plants are located in Chicago and Indianapolis, Ind. In addition, the unit has storage facilities and a grain elevator in Chicago, and originating elevators in Seneca and Lockport, Ill.

TB&CC's Diversification Move: Styrene-Maleic Resins

Eyes firmly fixed on what could be a 10-million-pound market within the next three to five years, Texas Butadiene & Chemical Corporation today (February 27) is up with the news that it has begun semi-commercial production of a new family of low-molecular-weight styrene-maleic anhydride resins.

A whole new area of interest for the New York-based company, the new resins (trade-named "SMA") are being produced under license from Dr. I. E. Muskat whose facility at South Miami, Fla., has been expanded to a capacity of 1 million pounds a year.

TB&CC makes neither styrene nor maleic, nor does it contemplate producing either of these raw materials—both of which are currently in ample supply.

The company is confident that the new styrene-maleic resins, which have a short-chain polyanhydride structure, can find a big outlet in latex paints as a modifier to achieve higher loadings of extender pigments, better hiding power and improved adhesion.

"SMA" resins also show excellent potential as chemical intermediates, emulsification agents, pigment dispersants, floor polish components, adhesives and leather tanning agents.

TB&CC's semi-commercial tabs for the resins: 59 cents a pound of solids in drum quantities, and 57 cents a pound in truckload quantities. Less-than-drum quantities are 75 cents a pound.

The company expects the commercial price to settle down at around 50 to 55 cents a pound.

The first member of the "SMA" resin

—Continued on page 54

Kennedy's Merger-Men Strike; Koppers First Chemical Target

Strong evidence is already at hand that the Kennedy administration plans to move quickly against any chemical industry mergers it feels are contrary to the antitrust laws. Just six weeks after Koppers Company, Pittsburgh, Pa., had acquired control of Thomas Flexible Coupling Company, Warren, Pa., the Department of Justice is now in court with papers to break up the merger. It is acting under the direction of the new Attorney General, Robert F. Kennedy.

The department reports that a civil suit has been filed in the Federal District Court for western Pennsylvania to force Koppers to let go of Thomas because the merger violates section 7 of the Clayton act.

Koppers Hastens a Denial

Koppers has been equally speedy to to enter the fray. A spokesman said the company considers itself not guilty "because the acquisition will neither be to lessen competition nor tend to create a monopoly."

The suit marks the first antitrust action brought by the Kennedy administration.

Acquisition of Thomas by Koppers, the suit alleges, may lessen competition and tend to create a monopoly in the manufacture and sale of flexible couplings, a metal device for transmitting power between industrial machines, in these ways: competition between Koppers and Thomas has been eliminated; Thomas has been eliminated as a substantial factor in competition, and Koppers' competitive advantage over other flexible coupling manufacturers may be enhanced to the detriment of actual and potential competition.

Koppers, which manufactures and sells a variety of products, had sales in 1959 of $240,281,000. It is the country's largest producer of flexible couplings. Thomas, although small in relation to Koppers, is the largest exclusive manufacturer of metal flexible couplings in the United States.

The government's suit asks the court to adjudge the acquisition to be in viola-

—Continued on page 36

Fertilizer Innovation Is Told by Spencer

Spencer Chemical Company is engaged in limited introductory marketing of a new high-analysis fertilizer containing 30 percent nitrogen and 10 percent phosphorus.

The material is a solid which can be applied directly to the soil or used as an ingredient in mixed fertilizers tailored to area needs. It represents, says Spencer, the first time such material ever has been made available from an industrial firm.

Mich. Chemical, Haveg Enter Shielding Field

Michigan Chemical Corporation and Haveg Industries, Inc., are getting together to develop and manufacture new-type, light-weight atomic radiation shielding. The project is aimed at providing protective shielding for electronic equipment, mobile units, military equipment facilities, personnel and human shelters.

Michigan Chemical, based in Saint Louis, Mich., and Haveg, located in Wilmington, Del., plan to work exclusively with each other in the development and fabrication areas of this new enterprise.

The proposed phase of protection has been a major object of research by government and industrial organizations.

However, say the two partners: "This is the first time that scientific knowledge, effective materials, and formulating and fabricating facilities have been combined to provide a commercial headquarters for

—Continued on page 55

Dow Posts Price Reduction For Styrene-Acrylonitriles

Dow Chemical Company has reduced prices of its styrene-acrylontrile copolymer series by 2½ cents a pound for crystal, standard and special color formulations and 1½ cents for blue tint formulations in truckload quantities.

Dow has also added a new formulation to the group, trade-marked "Tyril 750." This is a low acrylontrile copolymer designed for applications where the chemical resistance of general purpose polystyrene is insufficient but the superior chemical resistance of regular "Tyril" formulations is not needed, Dow says.

AEC Will Issue Permit For Isotopic Power Facility

Atomic Energy Commission says it intends to issue a construction permit to Martin Company, Baltimore, Md., for a chemical processing facility at Quehanna, Pa., to make isotopic sources of electric power.

The company would receive strontium 90 and irradiated material from AEC, and process them into strontium 90 and curium 242 fuel capsules for use in the commission's Systems for Nuclear Auxiliary Power (SNAP) program.

The irradiated material to be processed contains a small amount of plutonium, which will be removed and stored awaiting transfer at the direction of the AEC.

Because of the presence of the plutonium, a special nuclear material, the Quehanna operation is proposed for licensing as a "production facility"—defined in commission regulations as "any facility designed or used for the processing of

—Continued on page 55

The Week's Price Changes

Cottonseed Oil, Lard, Linseed Meal, Palm Oil Advanced. Corn Oil, Ocotea Cymbraum Oil, Vanilla Beans Reduced.

Prices Advanced

Cottonseed oil, crude, ¾c. per lb. (p. 48).
Refd., ¾c. per lb. (p. 48).
Lard, cash, ½c. per lb. (p. 48).
Linseed meal, $1 per ton (p. 48).
Palm oil, ¾c. per lb. (p. 48).
Rapeseed oil, ¾c. per lb. (p. 48).
Soybean meal, $2.50 per ton (p. 48).
Soybean oil, crude, ½c. per lb. (p. 48).
Refd., ½c. per lb. (p. 48).
Tin, metal (Straits) 2c. per lb. (p. 30).
Salts, 2/3c. to 1c. per lb. (p. 30).

Prices Reduced

Copra, $2.50 per ton (p. 48).
Corn oil, crude, ¼c. per lb. (p. 48).
Refd., ¼c. per lb. (p. 48).
Ocotea cymbarum oil, 1c. per lb. (p. 44).
Vanilla beans, Bourbon, 15c. per lb. (p. 44).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:

(100—1949 average)

Feb. 24, 1961	Feb. 17, 1961	Feb. 26, 1960
110.97	110.92	111.12

Paint Prices: Trend Is Upward

Capping a trend that got under way October 26, two paint companies have posted price advances averaging 3 percent on their lines of industrial finishes. Back in October, as the accumulation of cost increases began to squeeze too hard, it was National Lead Company that started the ball rolling with a 3 percent boost on its "Dutch Boy" retail paints. Other makers fell into line with similar increases, and by December 1 National Lead's move was industry-wide. Last week's action on industrial paints by Glidden Company and Pittsburgh Plate Glass Company, echoing an announcement by E. I. duPont de Nemours & Co. of January 3, just about wraps it up.

Sherwin-Williams in Special Position

Although Sherwin-Williams Company says it has no plans to boost industrial paint prices, the firm's position is a special one. A spokesman explains that S-W's prices are not on a fixed schedule but are negotiated with the company's large-volume consumers to reflect existing conditions.

Nor is National Lead holding out. The company, which sells titanium dioxide and other raw materials to paint makers in the east and midwest, markets its industrial line only on the west coast; its position, too, is a special one.

Glidden's advance becomes effective April 1, and Pittsburgh Plate's on Wednesday (March 1); but the Pittsburgh-based

—Continued on page 55

SALES DEVELOPMENT MANAGER: Leonard F. Pinto, named manager of sales development for the Newport Industries Division of Heyden Newport Chemical Corporation, New York.

Tennessee Products Gets Matter Patent on Plasticizer

Tennessee Products & Chemical Corporation, Nashville, Tenn., has been awarded a US patent covering the chemical composition for the plasticizer it has marketed nationally for several years under the trade name of "Benzoflex 9-88."

The patent rights awarded to Tennessee Products include dipropylene glycol dibenzoate as a composition of matter, and its use as a plasticizer with vinyl resins. They also cover methods for the manufacture of dibenzoate esters involving the reaction of benzoyl chloride with polyalkylene glycols.

Tennessee Products reports that cooperative research has developed a constantly expanding scope of applications for its

—Continued on page 32

Borden Company Acquires Graphic Art Product Firm

Hawley - Monk Company, Cincinnati, Ohio, manufacturer of inks, varnishes and related materials for the graphic arts industry, has been acquired by Borden Company.

Hawley-Monk will complement the facilities of Commercial Ink & Lacquer Company, a division of Borden Chemical Company. There will be no major change in operating policy or personnel of Hawley-Monk.

Index to News and Market Reports

Association News

CCDA to Discuss Business Trends..... 7
Chemical Men Uneasy About Reds..... 3
Lead Ass'n Sets Convention Theme..... 54
Oil Trades Meeting Set..... 49
Reciprocity Talk by FTC's Sheehy..... 7
TAPPI Elects Annis..... 7

Government News

AEC to Issue Isotopic Power Permit..... 4
Chemical Bids May Be Suspect..... 3
Copper Compound Cleared by FDA..... 36
DuPont, GM at the Supreme Court..... 7
Food Additives Deadline Nears..... 5
GSA Readies Quartz Sale..... 46
Kennedy's Merger-Men Hit Koppers.... 4
Pollution Control: JFK's Views..... 3

Industry News

Acetylene Unit Slated by duPont..... 5
Borden Acquires Hawley-Monk..... 4
Bottle and Jar Prices to Be Increased.... 49
Central Soya to Buy Glidden Unit..... 3
Chemical Dividends Fall 5
Container Corp. Plans New Unit..... 33
Delhi-Taylor Sells 23 Gas Wells..... 43
Dow Cuts Styrene-Acrylonitrile Prices.. 4
Dow Forms Metals Unit..... 5
Dow Opens Up Service Center..... 32
Fertilizer Innovation Told by Spencer.. 4
Heyden Offering New Paper Sizes..... 47
Metalsalts Reports Fungicide Progress. 47
Mich. Chemical, Haveg in Joint Venture. 4
Naphthalene from Petroleum Is Here.... 5
Paint Prices Moving Upward..... 4
Polyformaldehyde Resin Introduced..... 3
Polymer Offered in Quantity..... 36
Potash Deliveries Were Down in '60..... 7
PVA's Paper Market Seen Growing..... 47
Shulton Enters Drug Field..... 5
Sinclair's Petrochemicals Boost Profits.. 5
Sun Chemical Revamps Divisions..... 32
Syndet Sales Hit Peak..... 5
Tar Distillation Unit Slated..... 3
Tenn Gas Sets Up Petrochem Unit..... 5
Tennessee Gets Plasticizer Patent..... 4
Texas Butadiene Expanding..... 3
UOP to Use Sun Oil Process..... 55
USI Stops Selling FMC Specialties..... 7
Vitamin Firms Acquired by CSC..... 3

International News

Fisons Buys Into Spencer..... 5
Geneva Tariff Talks Bog Down..... 7
Union Carbide to Merge Mexican Units.. 5

Personnel News

California Chemical Appoints Knapp.... 5
General Mills Elects Andrews..... 5
Heyden Newport Names Pinto..... 4
Jobs & People..... 31
Pennsalt Appoints Ott..... 3
Pharmacraft Promotes Edwards..... 7
Sunkist Names Hansen..... 3
US Borax Elects Riemer..... 3

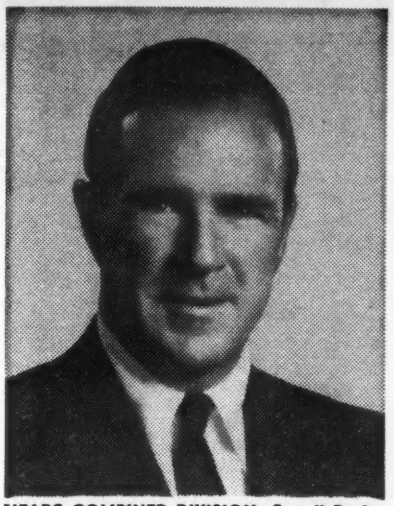
Market Reports

Acids 30
Agricultural Chemicals 34
Aliphatic Organics 35
Aromatic Chemicals 44
Botanical Drugs, Gums 40
Coal Chemicals 37
Coatings Materials 50
Drugs 38
Essential Oils 44
Fats & Greases 48
Fertilizer Materials 34
Fine Chemicals 38
Heavy Chemicals 30
Industrial Organic Chemicals 35
Metals, Nonferrous 30
Naval Stores 51
Oil Cake and Meal 49
Oils 48
Paint Materials 50
Pesticides 34
Petrochemicals 35
Petroleum Derivatives 47
Protective Coatings Materials 50
Spices 44
Trade Name Chemicals 47
Waxes 49

General Features

Advertisers' Index 55
Association Meeting Dates 7
Bids Wanted 36
Classified Advertisements 54
Crude Oil Stocks 49
Current Market Quotations 11
Editorials 9
Imports 42
Jobs & People 31
Obituaries 33
OPD Price Index 4
OPD Reports From Europe 7
Washington Talks It Over 9

OIL, PAINT AND DRUG REPORTER, Vol. 179, No. 9, February 27, 1961. Published weekly on Monday by Schnell Publishing Company, Inc., 30 Church Street, New York 7, N. Y., U.S.A. Second-Class postage paid at New York, N. Y. Single copy price: 50 cents. Subscription prices:—United States and Possessions, $5 a year; Canada and Newfoundland, $7; other countries, $12. Copyright, 1961, Schnell Publishing Company, Inc.



HEADS COMBINED DIVISION: Sewall D. Andrews, jr., vice-president of General Mills, Inc., Minneapolis, Minn., and head of its oilseeds division, who has been named general manager of its newly-formed specialty products division—a combination of the former oilseeds and special commodities divisions.

Tenn. Gas Establishes A Petrochem Operator

Tennessee Gas Transmission Company, preparing to put up a big petrochemical complex on the Houston Ship Channel in Texas, has just formed the subsidiary which will construct and operate it: Tenneco Chemical Company.

And, says the parent firm, the scope of the complex has been widened beyond the preliminary plans. Originally, the complex was to produce acetylene and vinyl chloride monomer. Now another product, vinyl acetate monomer, is being scheduled for the products list, and there will probably be a fourth: ammonia.

Tenneco Chemical will operate as a subsidiary of Tenneco Corporation, which, in turn, is a subsidiary of Tennessee Gas.

Joe J. King, former senior vice-president of Tennessee Gas, has been elected president of Tenneco Chemical. F. L. Padgitt, former director of project development for the parent company, has been made vice-president.

According to the original plans, one of the units will have an initial annual capacity to manufacture 100 million pounds of acetylene. Methane will be its raw material. A second unit, according to the initial plans, will convert a major part of the acetylene into vinyl chloride monomer, with annual production of approximately 200 million pounds.

Now that the scope of the complex has been broadened, vinyl acetate monomer has been added, but the company is not

—Continued on page 46

Shulton Enters Drug Field With Colfax Labs Formation

Shulton, Inc., New York is entering the drug field with the formation of Colfax Laboratories, a new operating division. The unit will be headed by Frederick C. Visor.

A newly-formed home products division, headed by William H. O'Brien, will handle Colfax products. The home products unit replaces the former consumer chemical section of the fine chemicals division.

Fisons Buys Into Spencer

A block of 75,000 shares of Spencer Chemical Company, Kansas City, Mo., has been acquired by Fisons, Ltd., of Felixstowe, England, from the estate of the late Kenneth A. Spencer. A further 15,000 shares were acquired by Fisons from other holders.

Food Additives Law Deadline Draws Closer But Oren Harris Makes Move to Hold It Off

Congress at long last is showing signs of moving off dead-center and doing something about the unhappy situation facing many chemical producers who might wake up next Monday morning (March 6) to find that their products are in technical violation of the food additives law and subject to seizure as unsafe. Chairman Oren Harris of the house interstate commerce committee announced last week that he has scheduled the food additives extension bill (HR 3980) offered over a month ago by Food & Drug Administration for public hearing before his committee tomorrow (February 28).

The chemical industry will strongly support the legislation with testimony from the additives committee of the Manufacturing Chemists' Association, stressing the impossible situation that will face producers, food processors and consumers alike if an extension is not granted.

An unknown factor in the legislative situation is the attitude of Rep. James Delaney of New York, recognized leader of the politically-powerful factions supporting a tightly-enforced additives control law. Mr. Delaney has been in contact with FDA on the bill, but hasn't been completely "sold" on it in its present form.

Hearing Expected to Be Short

It is anticipated that the hearing will be held to the minimum—probably not exceeding more than one day's duration—so that the legislation can be quickly reviewed in closed session, amendments considered, and the bill sent to the floor for passage promptly.

Chairman Lister Hill of the senate labor and public welfare committee, though he has introduced an identical bill, S 947, is marking time waiting for the house to act first. No trouble is anticipated once the bill gets out of committee and on to the house and senate floors for passage.

With time rapidly running out when all food additives must be cleared as safe, through either scientific test work or other accepted procedures, chemical producers and food processors have been on tenterhooks since the first of the year, waiting for some sign that congress intended to provide the relief that has become absolutely necessary.

The bill gives the FDA authority to delay the date when food additives that have been in use prior to January 1, 1958, must comply with the safety requirements of the food additives law. It is what has been termed an "open end" extension of the law, leaving it within the discretion of the agency to determine when the law

—Continued on page 43

EUROPEAN MARKETING CHIEF: David Knapp, appointed director and vice-president in charge of European marketing activities for California Chemical International, Inc., overseas marketing affiliate of California Chemical Company, San Francisco.

Syndet Sales Reach Peak, Liquid Detergents Set Pace

Soap and synthetic detergents sales hit a new peak in 1960. With liquid synthetic detergents setting the pace, the industry's overall sales totaled 4,367,586,000 pounds, valued at $1,119,884,000.

According to the Association of American Soap & Glycerine Producers, these figures were up 2.3 percent and 2.4 percent, respectively, over 1959 levels.

Synthetic detergent sales amounted to 3,310,650,000 pounds and $800,673,000, up 3.3 percent in pounds and 3.4 percent in dollars compared to 1959.

Solid synthetic detergents totaled 2,665,386,000 pounds, valued at $580,467,000, a 1.1 percent rise in quantity and a 1.6 percent increase in value.

Liquid synthetic detergents, which have been undergoing dynamic sales expansion, totaled 645,264,000 pounds and $220,206,000. Measured against 1959 performance, liquid synthetic detergents are up 14.0 percent in pounds and up 8.5 percent in dollars.

Soap sales amounted to 1,056,936,000

—Continued on page 46

Acetylene and duPont: Buyer to Be Own Maker

E. I. duPont de Nemours & Co., one of the country's biggest users of acetylene, has decided to make its own. The company is ready to construct a production facility, geared to a new process, at the site of its neoprene plant in Montague, Mich.

The unit will produce acetylene from low-cost hydrocarbons. Construction will start late this year, with completion scheduled for the early part of 1963.

Capacity, says the Wilmington, Del., owner, will be in excess of 50 million pounds a year.

(The duPont announcement is causing repercussions among the company's acetylene suppliers. Union Carbide Corporation's plants at Sault Sainte Marie and Montague reportedly will lose the major share of their business. Air Reduction Company is said to have re-negotiated contracts for supply of duPont's Louis-

—Continued on page 54

Union Carbide to Combine Two Mexican Subsidiaries

Union Carbide Corporation will merge its two Mexican subsidiaries—Electrodos Nacionales, SA, and Bakelite de Mexico, SA—into a single company. Carbide also has made plans to expand its present Mexican operation to produce enough electrodes to cover the local market, obviating the need for imports.

Carbide says it will offer $3,840,000 worth of stock on Mexican stock markets, which together with combined capital of the two subsidiaries worth $5,760,000, will bring total capitalization to $9.6 million.

Sinclair's Cure For Profits Sag: Petrochemicals

Petroleum producers' problem: How to boost sagging profits? Sinclair Oil Corporation' answer: Petrochemical earnings. In 1959, profits from petrochemicals were insignificant. But in 1960, nearly 10 percent of the New York-based company's $52.5 million profits came from petrochemicals.

This was pointed out by Harry Jeffries, chairman of the finance committee of Sinclair, at a meeting of the New York Society of Security Analysts last week.

In 1960, he said, Sinclair's losses, pretax, in fuel oil sales amounted to $9 million as a result of price wars. This beating was offset by a favorable profit position in petrochemicals, as well as increased crude oil output and sales of natural gas, along with increased corporate efficiencies.

Sinclair's Petrochemical Income

A large portion of Sinclair's petrochemical income in 1960 derived from two p-xylene plants—one in Houston, Tex., supplying E. I. duPont de Nemours & Co., and one in Marcus Hook, Pa., supplying Hercules Powder Company.

DuPont and Hercules use p-xylene for manufacture of terephthalic acid, which in turn is made into dimethyl terephthalate and eventually into polyethylene terephthalate polyester fibers and film.

Mr. Jeffries frankly admits that the plants supplying p-xylene are operating at maximum capacity, and are not big enough to fill demand. But, he adds, the size of the plants is governed by availability of feedstocks and nothing can be done about it.

DuPont has two DMT plants—one in Gibbstown, N.J., rated at 80 million pounds a year and one in Old Hickory, Tenn., estimated at 60 million pounds annually. It consumes DMT captively in manufacture of polyester fiber and film. Hercules' Burlington, N.J., plant, currently expanding to 36 million pounds annually, is a merchant producer.

Other Sinclair petrochemical ventures include a joint effort with Koppers Company, in which Sinclair-produced ethylbenzene will be employed in the Sinclair-Koppers plant now being built in Houston to make 75 million pounds of o-xylene a year.

The company produces benzene and toluene, recovers sulfur and propylene and has a 45 percent interest in Calumet Nitrogen Products Company, a producer of anhydrous ammonia and ammonium nitrate.

Chemical Dividends Fall Slightly From 1960 Level

Cash dividend payments of chemical companies publicly reported for January were only slightly less than those of the same month a year ago, according to the Department of Commerce.

Data collected by the Office of Business Economics indicate that chemical manufacturers paid out $36 million in cash dividends during the month, compared with payments totaling $36.9 million in January of 1960.

The experience of the chemical companies was against the trend recorded for corporations generally, the figures show. For all industry, cash dividends amounted to $1,003.2 million in January against $986.7 million a year earlier.

In fact, chemicals, transportation equip-

—Continued on page 49

Dow Forms Metals Unit To Consolidate Activities

Dow Chemical Company, Midland, Mich., has formed a new metals department, whose aim will be "to pull together and be responsible for various Dow activities in magnesium and other primary metals."

W. J. Rave, formerly magnesium production manager in the Texas Division, has been named manager of the new department. Hilary A. Humble will serve as sales manager.

The metals department will be separate and distinct from the Dow Metal Products Company Division.

Naphthalene From Petroleum: Now It's a Reality

"The world's first naphthalene produced from petroleum is now a commercial reality."

With those words Ashland Oil & Refining Company announced late last week that five special tankcars were being loaded with the new petrochemical at the company's refinery near Ashland, Ky.

The first shipments of naphthalene were scheduled only seven months after Ashland Oil broke ground for construction of a manufacturing unit, utilizing a new refining process to convert petroleum stocks to naphthalene or benzene.

Production from the new unit has been estimated to yield from 75 million to 100 million pounds per year of naphthalene, and as much as 6 million gallons of benzene.

The initial naphthalene shipment will total almost a half million pounds, says Ashland Oil, adding that shipments will do much to alleviate the existing naphthalene shortage in domestic markets.

Prior to completion of Ashland's new unit, naphthalene had never been manufactured in commercial quantities from petroleum, coming instead as a by-product from coaltar.

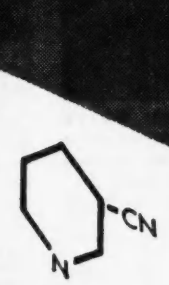
The company's new unit is trade-named "Hydeal" and was discovered by Ashland personnel and developed through the company's research facilities. Licensing arrangements are being made through Universal Oil Products Company, Des Plaines, Ill.

Eleven other "Hydeal" units, utilizing the same basic process in the manufacture of benzene instead of naphthalene, have been licensed through Universal Oil under royalty agreements.

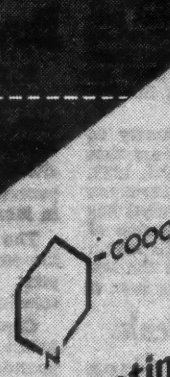
REILLY NIACIN

U. S. P. Grade

TECHNICAL Grades



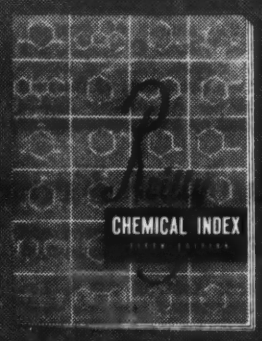
3-Cyanopyridine



Methyl Nicotinate

...Produced from Reilly's synthetic 3-Picoline, thus insuring continuity of supply

Send for your copy of the Reilly Chemical Index



Reilly CHEMICALS

REILLY TAR & CHEMICAL CORPORATION

MERCHANTS BANK BUILDING INDIANAPOLIS 4, INDIANA

Sales Offices in Principal Cities

DuPont, GM Plea: Mercy

If stockholders of E. I. duPont de Nemours & Co. own 23 percent of General Motors Corporation stock, will this influence the chemical company and the automobile maker to snuggle up a little closer than they would otherwise?

Since the Department of Justice wouldn't take no for an answer when Judge Walter J. LaBuy rejected divestiture in Federal District Court, the case is now back to the Supreme Court, where lawyers on both sides of the aisle last week rehashed arguments heard in Chicago.

Speaking for the Wilmington, Del., chemical maker, counsel Hugh B. Cox, of Washington, urged the court to be guided by "practicality and mercy" in deciding terms of the antitrust decree brought against the company in 1957.

In urging that Judge LaBuy's decision be upheld, Mr. Cox emphasized the "serious injury" divestiture would do to duPont stockholders. He said they would be hurt both by heavy taxes and by a certain price decline in GM stock if duPont holders were forced to sell.

John F. Davis, speaking for the government, insisted that the remedy devised by Judge LaBuy would prove ineffectual. He argued that as long as duPont shareholders held so overwhelmingly an interest in the Detroit, Mich., motor company, they could and would influence GM to deal favorably with duPont.

Mr. Cox replied that such influence could be prevented by "sterilizing" the voting rights in GM enjoyed by duPont shareholders.

This would be done, he said, by providing that the duPont-owned shares would always be voted in proportion to the votes of all other General Motors shares.

Mr. Davis countered this by holding that voting rights are not essential to control of corporate policy.

—*Continued on page 43*

OPD Reports From Europe

Geneva a Big Bog of Tariff Talks, With Chemical Hopes Stuck Fast

Geneva, seat of the talks between the Common Market and the other member states of the General Agreement on Tariffs & Trade, is nothing more than a bog these days as the negotiators flounder along through one postponement after another. Right now, clouding up the outlook for American chemical men, who have a great stake in the results of the parleying, is a prediction that the discussions will last well into next month.

TAPPI'S NEW PRESIDENT: Harold M. Annis, vice-president in charge of research for the Oxford Paper Company, who last week was elected to a one-year term as president of the Technical Association of the Pulp & Paper Industry.

One clear effect of the bogging-down (the technical discussions on the external tariff were to have been completed by the end of 1960) is the postponement of the so-called Dillon negotiations for a general cutting of tariffs by all GATT members of up to 20 percent over a few years.

Some Blame the British

Reports coming from some Common Market delegations at Geneva, particularly the French, are putting the blame for the delay mainly on the British.

According to these stories, which have been given large play in the Paris economic and financial papers, the British are insisting on a product-by-product discussion of the external tariff and have launched an "inexhaustible" juridical debate over the methods used to calculate the common tariff of the Common Market.

The French press imputes very deep and dark motives to the British delegation for these alleged stalling tactics. The British are reportedly hoping to check the acceleration of the Common Market in this way. The British also are accused of being anxious to postpone as long as possible the Dillon negotiations because

—*Continued on page 32*

Reciprocity: Legal or Illegal? Chemical People Are Advised To Study It If They Play It

When does a reciprocal selling arrangement violate the antitrust laws? It wasn't a chemical conclave, but rather the annual meeting of the American Paper & Pulp Association that heard the question posed and answered by a man from government last week. Chemical industry representatives, however, were happy to be on hand for the latest inside views on the perplexing subject. "If your firm is a party to a reciprocal buying or selling arrangement," the New York meeting was told, "analyze it with particular regard to its probable competitive effects."

Joseph E. Sheehy, director of Federal Trade Commission's Bureau of Litigation, conceded that reciprocal buying or "mutual back scratching, if you will," is among the facts of life.

FTC 'Recognizes Realities'

The commission, he added, "has frequently shown its willingness to recognize the realities of the business world."

But these realities become a matter of antitrust interest to FTC whenever they tend toward monopoly, and, according to Mr. Sheehy, such a tendency is evident when:

- A party to the arrangement has an appreciable share of the market "in any area," and
- The agreement or understanding is likely to foreclose competitors from the market.

These two conditions were held to accord with the standard set by the Supreme Court in its International Salt Company decision. The court had concluded that:

"The volume of business affected by these contracts cannot be said to be insignificant or insubstantial and the tendency of the arrangement to accomplishment of monopoly seems obvious.

"Under the law, agreements are forbidden which 'tend to create monopoly' and it is immaterial that the tendency is a creeping one rather than one that proceeds at full gallop; nor does the law await the arrival at the goal before condemning the direction of the movement."

Illustrating the broad powers vested in the commission under sections 3 and 5 of the Clayton act, Mr. Sheehy cited a

—*Continued on page 40*

MARKETING VICE-PRESIDENT: Mauri Edwards, elevated from sales vice-president to marketing vice-president by Pharmacraft Laboratories, New York, drug producing unit of Joseph E. Seagram & Sons, Inc.

USI No Longer Will Sell FMC's Specialty Chemicals

US Industrial Chemicals Company, which has been marketing certain specialty chemicals and pigment intermediates for Food Machinery & Chemical Corporation for the past seven years, has now turned this selling operation back to FMC.

These products have been produced by FMC and marketed by USI since 1954 when FMC acquired the Fairfield, Md., production facilities from USI.

Products involved in the new sales arrangement are acetoacetanilide, acetoacetarylides, ethylacetoacetate, ethylbenzoylacetate, sodium ethyloxalacetate, diethyl oxalate and diethylcarbonates.

In making the announcement, Warren E. Johnson, USI director of chemical sales, emphasized that the new arrangement reflects USI's desire to concentrate on plastics and major industrial chemicals.

Potash Deliveries Off, But Just a Little Bit

Potash deliveries for agricultural purposes were off a bit—but just a little bit—last year. About 1 percent, reports American Potash Institute. In the United States, Canada, Cuba and Puerto Rico, deliveries by the eight principal American producers, and the importers, amounted to 3,953,505 tons of salts, containing an equivalent of 2,305,212 tons of K_2O.

Continental United States took 2,138,237 tons K_2O; Canada, 99,495 tons; Cuba, 23,-

—*Continued on page 55*

CCDA's New York Meeting Will Discuss Business Trends

Did 1960 foreshadow the decade? Commercial Chemical Development Association has selected this question as the theme for its annual New York open meeting, which will be held March 16 at the Roosevelt hotel.

Experts from a variety of fields are slated to discuss the question during the morning session. A panel group during the afternoon will review forecasts made in 1959 and analyze them in the light of 1960 performance.

Association Meetings

ACHEMA 1961, German chemical engineering exposition and congress, Frankfurt am Maim, Germany, June 9-17.

American Chemical Society, national meeting, St. Louis, Mo., March 21-30.

American Institute of Chemical Engineers, annual meeting and petrochemical exposition, Roosevelt hotel and Municipal Auditorium, New Orleans, La., February 25-March 1.

American Pharmaceutical Association, annual convention, Sherman hotel, Chicago, April 23-28.

American Society of Perfumers, annual symposium, Essex House, New York, April 13.

American Zinc Institute, annual meeting, Drake hotel, Chicago, May 1-2.

Animal Health Institute, annual meeting, Mayflower hotel, Washington, April 24-26.

Chemical Market Research Association, annual meeting, Plaza hotel, New York, May 17-18.

Chemical Specialties Manufacturers Association, midyear meeting, Drake hotel, Chicago, May 15-17.

Chemurgic Council, annual conference, Sheraton-Gibson hotel, Cincinnati, Ohio, April 12-14.

Commercial Chemical Development Association, annual meeting, Roosevelt hotel, New York, March 16; annual outing, Bedford Springs hotel, Bedford Springs, Pa., May 24-25.

Drug, Chemical & Allied Trades Association, all-day symposium and annual banquet, Waldorf-Astoria hotel, New York, March 2.

Electrochemical Society, Claypool hotel, Indianapolis, Ind., April 30-May 4.

Federal Wholesale Druggists' Association, mid-year meeting, Statler-Hilton hotel, New York, March 2-3.

Federation of Societies for Paint Technology, annual meeting, Shoreham and Sheraton-Park hotels, Washington, November 2-4.

Flavoring Extract Manufacturers Association, annual meeting, Savoy-Hilton hotel, New York, May 14-17.

International Congress on Pure & Applied Chemistry, Montreal, Canada, August 6-12.

Lead Industries Association, annual meeting, Drake hotel, Chicago, May 2-3.

Manufacturing Chemists' Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., June 8-10.

National Agricultural Chemicals Association, annual meeting, Homestead, Hot Springs, Va., October 29-November 1.

National Paint, Varnish & Lacquer Association annual meeting, Statler-Hilton hotel, Washington, October 30-November 1.

National Plant Food Institute, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., June 11-14.

Pharmaceutical Manufacturers Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., April 30-May 3.

Pittsburgh Conference on Analytical Chemistry & Applied Spectroscopy, Penn-Sheraton hotel, Pittsburgh, Pa., February 27-March 3.

Plastics Exposition, sponsored by the Society of the Plastics Industry, Coliseum, New York, June 5-9.

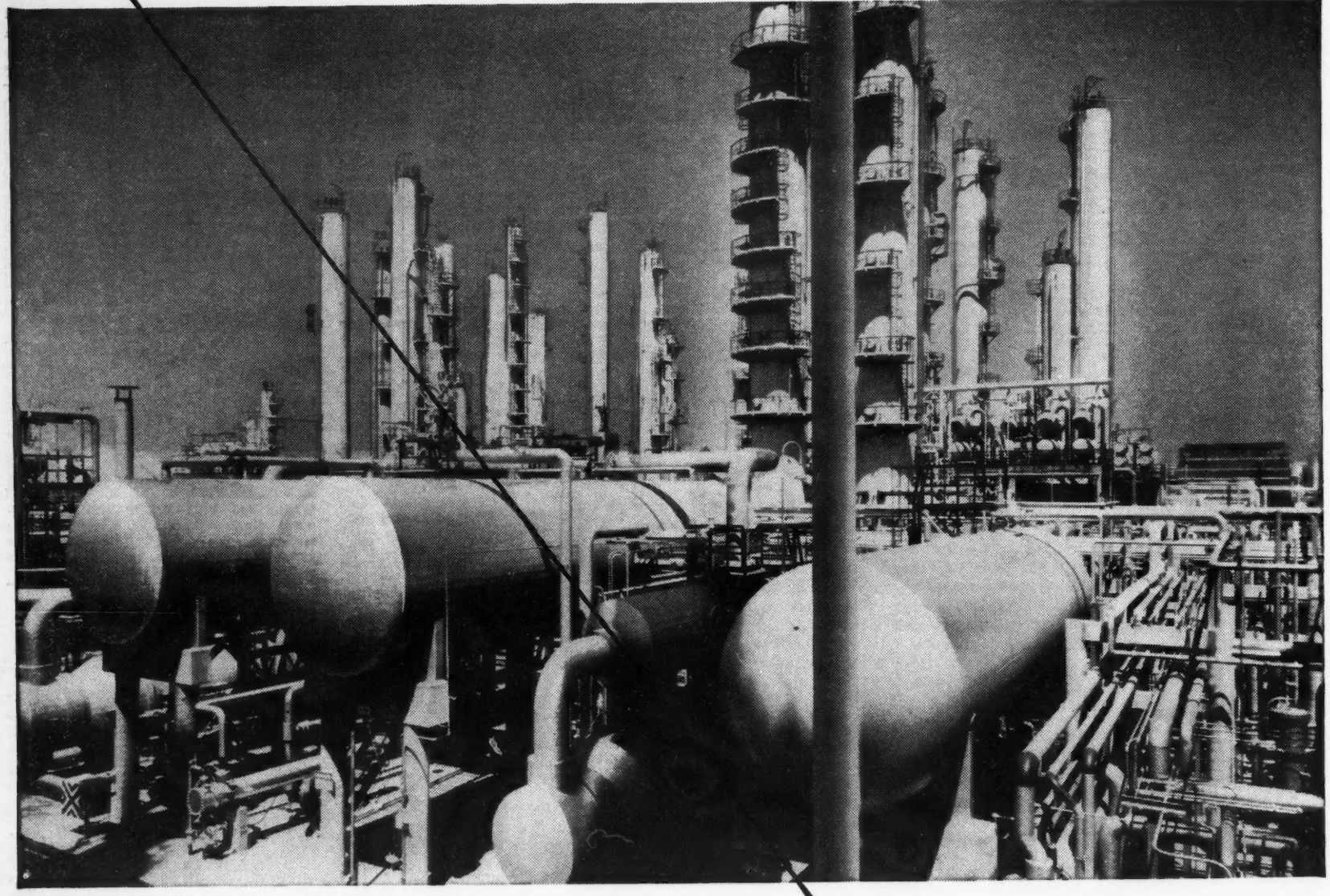
Proprietary Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., May 14-17.

Society of the Plastics Industry, western section conference, del Coronado hotel, Coronado, Calif., April 20-21; national conference, Commodore hotel, New York, June 5-9.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Roosevelt hotel, New York, March 14.

Toilet Goods Association, annual convention, Waldorf-Astoria hotel, New York, May 9-11.

Butylenes? Petro-Tex!



Petro-Tex alone can supply all these butylenes from major, non-captive production

n-BUTENE-1 **n-BUTENE-2**
ISOBUTYLENE **MIXED BUTYLENES**

We can supply all or any combination of these butylenes in any quantity you may require. We invite your inquiry for prices and specifications and technical data.

Petro-Tex®

PETRO-TEX CHEMICAL CORPORATION
8600 PARK PLACE, HOUSTON 17, TEXAS
JOINTLY OWNED BY
fmc FOOD MACHINERY AND CHEMICAL CORPORATION
TENNESSEE GAS TRANSMISSION COMPANY

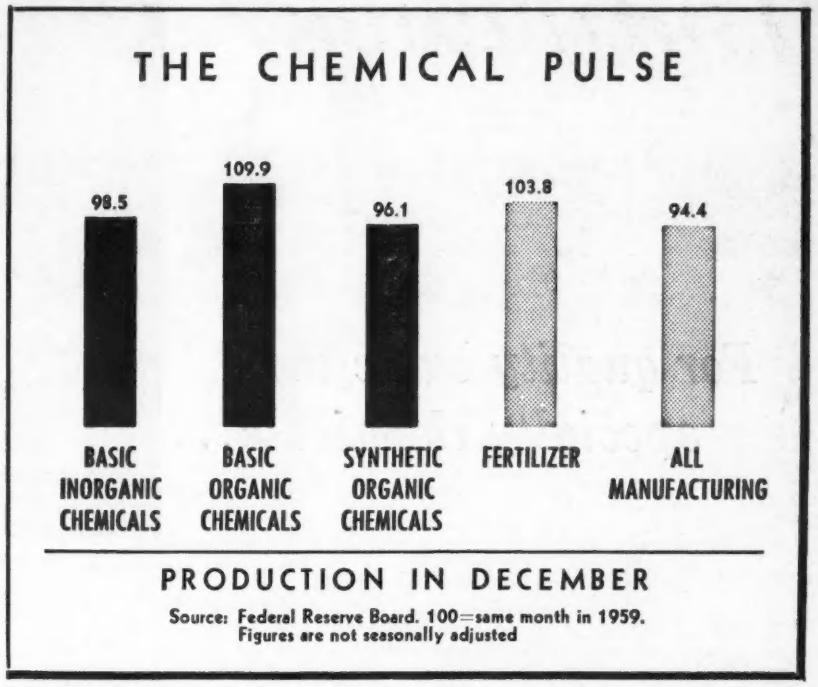
Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

Founded October 18, 1871 by William O. Allison
Directed 1900-1942 by Harry J. Schnell
EDITOR AND PUBLISHER: William S. Auchincloss
ASSISTANT PUBLISHER: J. Stuart Auchincloss
MANAGING EDITOR: Arthur R. Kavaler
TECHNICAL EDITOR: Edwin M. Fisher
NEWS EDITOR: Gene Gasteiger
OPD SPECIAL REPORTS: Don L. Richards
MARKETS: Andrew C. Barchi, John L. Casey, Richard Consolas, James Gubitosi, Jacqueline Hudgins, Harvey McCormick, Harry Van
IMPORTS: Mary Van Grieff
CONSULTING EDITOR: Hugh Craig
WASHINGTON EDITOR: Ralph L. Cherry, 956 National Press Building, Washington 4, D.C.
EUROPEAN EDITOR: Clare M. Cotton, 26A Wellington Road, London NW 8, England
SCHNELL PUBLISHING COMPANY, INC., 30 Church Street, New York 7, N. Y.
(RE 2-9820) Cable Address: Reporter, New York
PRESIDENT: William S. Auchincloss
VICE-PRESIDENT: Jean Schnell Auchincloss
TREASURER: William S. Auchincloss
ASSISTANT TREASURER: Ruth D. Johnson
SECRETARY: Anne L. Koch
ASSISTANT SECRETARIES: J. Stuart Auchincloss, Sara Jane Auchincloss

Copyright 1961 by Schnell Publishing Company, Inc.
Member of Audit Bureau of Circulations

Volume 179 February 27, 1961 No. 9



Canadian Tariff Plans

The Canadian Tariff Board has decided to resume its inquiries into chemical materials with a public hearing May 8, at which it will give consideration to specific organic chemicals, beginning with hydrocarbons, after it has heard any submitted views of a general nature with reference to rate structures, tariff nomenclature and other broad considerations relating to all organic chemicals. Other hearings will follow during the next six months, considerations to reach important members of the ester category late in October. Details may be got from the board.

Representatives of the chemical industry desiring to give oral testimony are requested to advise the secretary of the board at least fifteen days prior to the date of the hearing in which they are interested. Proposals with reference to the wording of tariff items and the rates of duty should be filed with the board at least sixty days before the date set for the hearing on the materials with which they are concerned. Briefs or submissions should be in the hands of the board at least thirty days before the date of the public hearing to which they have relation.

The board requires that it be provided with 250 copies of all submissions, all briefs, and all proposals at the specified advance date in order that it may be able to supply the particulars to all persons interested in a particular case.

In what, if any, manner the plans of the Canadian board may be affected by the results of the conference of the prime minister with President Kennedy remains to be learned. But, the Synthetic Organic Chemical Manufacturers Association and its members should wisely set about the effective doing of the job which those plans present without delay.

Government-Business Team

Because so many whose cooperation is imperatively necessary will look upon President Kennedy's plea for a "full-fledged alliance" of government and business for the attainment of economic growth, plant modernization and price stability from a political point of view, the setting up of that alliance is not going to be completed in the next month or two. Such an alliance is a most necessary—an indispensable—means of success in the handling of the task of promoting economic progress in pace and scope in keeping with the demands of this country's role in world needs in the far-from-easy days to come.

The report of the trouble-touring Secretary of Labor should make it clear to everybody seriously concerned with this country's public-welfare tomorrow that getting the economy out of the current recession is far more a business job than a governmental one. The constructive project needs a strong, solid foundation, not a numerous and various assortment of costly props.

It is seriously to be urged that the participation of this country in the Organization for Economic Cooperation & Development be revised to a domestic alliance with state and local industrial and commercial, as well as political, organizations in the tackling, doing, and completing of a job that must be done. Neither it nor any one of them can do that job alone. For the assurance of success of their coordinated endeavors, it is of primary importance that each and all of them have full understanding of what is to be done and of their respective roles in its doing—also full confidence in every respect in all the other members of the team.

The pertinence of those conditions is emphasized quite strongly by the declaration (on the day after the President made his proposal) by the Secretary of Commerce that, having doubts in the matter, he will decide whether he will retain the services of the Business Advisory Council after he has met with it in March.

It is, of course, quite likely that business will be influenced to some extent in its decision on teamwork by what the National Industrial Conference Board may have to say with regard to the President's proposal—which was made to it. But, it is sincerely to be hoped that it will most heartedly decide to team up with government for the doing of an imperatively necessary job.

Neighborly Relations

In further keeping with his inaugural expression of serious concern for the progress of the Western Hemisphere in all areas of political, commercial, social, and cultural necessity and desirability, President Kennedy has supplemented his conference with the Prime Minister of Canada with the proclaiming of April 14 as Pan-American Day (it is the anniversary of the founding of what is now the Organization of American States) and the period of April 9-15 as Pan-American Week. He has urged all citizens to celebrate in some appropriate manner the long history of friendly association among the hemisphere's governments and peoples—he is not reported to have said so, but it is to be assumed that he would have his people pass up as actually immaterial the few instances in which certain aspects of that association have not been pleasant.

It is to be expected that the people of this country will be able to learn from what Mr. Kennedy and Mr. Diefenbaker have had or will have to say much that they can do with relation to their Northern neighbors. With regard to their Southern neighbors, the procedure is a matter of multiple and diverse aspects. That was made quite evident in what two members of the foreign relations committee of the House of Representatives had to say about a fortnight ago with reference to what they felt was the lesson they had learned during a tour of six Latin-American nations late last year. However, one should take into due consideration the fundamental truth that the point of view is a particularly decisive factor in many conclusions.

The initiation and cultivation of desirable neighborly relations in both directions is far more a job for private individuality than it is for public officialdom. The desirable relations are primarily of the person-to-person type. Because of the essentiality of business in the development of international person-to-person relations and the fact that to be fully satisfactory, such relations must also be social and cultural, their development must be approached from a number of angles and performed in a number of ways. But, as has been very well related by a business executive with long experience in Latin-American relations, "the great need is to help those nations help themselves." That help must be such as will encourage—and enable—those nations to remain democratic. The commenting business executive saw a possibility that, if this country's business did not help the needy Latins to get on their feet and do what was at least to be attempted, they would be misled to embrace communism—"perhaps in 1961."

Washington Talks It Over

Abraham Ribicoff and His First Thirty Days as Top Man at HEW: He Is Still Looking Things Over, And the People in the Chemical Industry Are Still Having a Long, Careful Look at Him.

By Ralph L. Cherry
Washington Editor

Last Monday was the anniversary of the first month in office for Abraham Ribicoff, Secretary of the Department of Health, Education & Welfare. The occasion wasn't marked by any special celebration in the agency; rather, it was just another day of long hours and hard work, whipping the Kennedy health and welfare plans into shape for early action by congress.

Thirty days provide hardly enough time to form any definite conclusions about the man with whom the chemical and drug industries will have many dealings in matters of mutual concern in the future. But they have been giving observers some idea of the kind of administrator he may turn out to be and what their industries might look for in the way of administrative actions from the agency.

Mr. Ribicoff seems to be well satisfied with the administrative staff he inherited from the Flemming-Folsom-Hobby regimes. He has made fewer than a half-dozen appointments of his own and gives no signs of allowing the department to become a haven for political appointees.

He likes the goals that the various offices and bureaus established just before Arthur Flemming left the scene, although he reserves the right to improve on them.

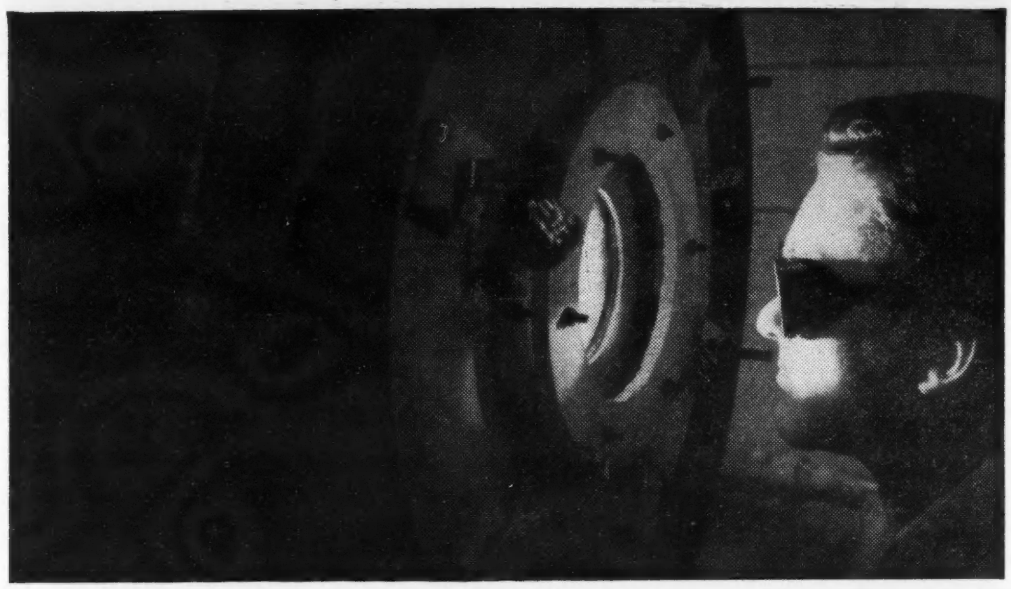
He says that "the very nature of the department is beyond politics" and adds that he has been impressed by the "high caliber and quality of the administrative personnel" and hopes that they will stay on in the department under his administration.

From what those in close contact with the department have been able to gather from its day-to-day operations, Mr. Ribicoff has been letting the various offices, bureaus and agencies run themselves while he and his planners have been working on the details of the Kennedy health and welfare programs for presentation to congress. This promises to continue to occupy most of his time for the next several months while congress considers the legislation.

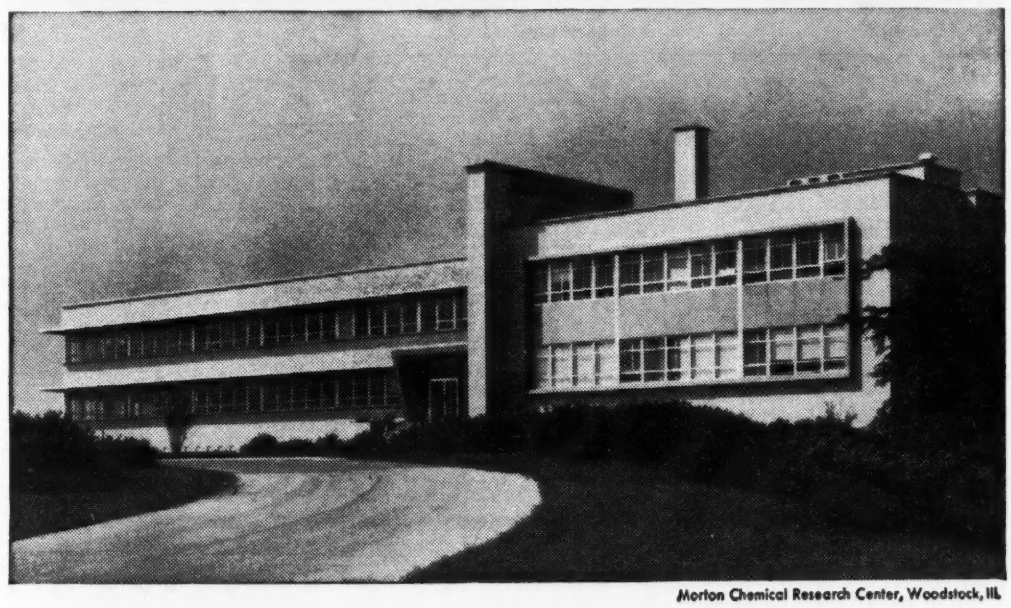
Thus, policies being pursued by Food & Drug Administration in the handling of its various laws will remain unchanged for some time to come.

Also, some of the bills expected to be sponsored by the agency this year—such as last year's factory inspection, cosmetic pre-testing, and barbiturates and amphetamines legislation—may be delayed for quite a while.

For quality basic and specialty chemicals...



For problem-solving tech service...



Morton Chemical Research Center, Woodstock, Ill.

call your Morton Man

Product performance problems? Process troubles? Delivery schedule headaches? Need technical service? Your Morton Man can help... with high-quality basic and specialty chemicals. You'll also get the valuable benefits of the Morton Research and Technical Service Team. Learn the full story about these remarkable Morton resources today.

ALLYL ISOTHIOCYANATE (Mustard Oil)	ELASTOMAG MAGNESIUM OXIDE	BENZOTRIAZOLE	ORTHO-PHENYLENEDIAMINE
AMMONIUM THIOSULFATE (60% Solution)	BASIC MAGNESIUM CARBONATE	SALT CAKE	PHLOROGLUCINOL
MODIFIED POLYSTYRENE LATICES FOR FLOOR POLISHES	ACRYLIC EMULSIONS FOR FLOOR POLISHES	DIAZO COMPOUNDS	MURIATIC ACID (Hydrochloric Acid)

MORTON CHEMICAL COMPANY
Chicago 6, Illinois

CHICAGO
110 N. Wacker Drive
Chicago 6, Illinois
Financial 6-6760

NEW YORK
17 Battery Place
New York 4, N.Y.
WHitehall 4-4285

NEW ORLEANS
1111 Tulane Avenue
New Orleans 12, La.
Tel. 524-6511

Contact your Morton Man today at the sales office nearest you!

CHEMICALS AND RELATED MATERIALS

All matters under this heading fully protected by copyright.

Current MARKET Quotations

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, February 24 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Abies siberica oil, cns ..... lb. 1.90 2.40
Acacia (see Arabic gum).
Acetaldehyde, 99%, dms., c.l., frt. alld. lb. .12 - —
dms., l.c.l., frt. alld ..... lb. .13½- —
tanks, frt. alld ..... lb. .10 - —
Acetaldehyde prices 1c. higher in West.
Acetaldol (see Aldol)
Acetanilide, tech. flaked, bbls., bgs., c.l., frt alld lb. .32½- —
bbls., bgs. ton lots, frt. alld. lb. .33½- —
bbls., bgs., smaller lots, frt. alld lb. .36½- —
USP bbls. 225-lb dms. any quantity lb. .90 - —
100-lb. dms., any quantity lb. .92 - —
Acetic acid, coml., or redist., 28%, bbls 100 lbs. 4.80 - —
56%, bbls. ..... 100 lbs 8.25 - —
70%, bbls. ..... 100 lbs. 9.93 - —
80%, bbls. ..... 100 lbs.10.45 - —
Acetic acid, glacial, syn., CP, dms., c.l., dlvd. E 100 lbs. 18.75 - —
tech., dms., c.l., dlvd. E. 100 lbs. 13.75 - —
dms., l.c.l., dlvd. E ... 100 lbs. 15.25 - —
tanks, dlvd. E ..... 100 lbs. 10.00 - —
USP, tanks, dlvd. E .... 100 lbs. 13.00 - —
Acetic anhydride, aluminum ret. dms., c.l., dlvd. E lb. .16½- —
aluminum ret dms., l.c.l. dlvd E. lb. .18 — —
tanks, dlvd E ..... lb. .14 — —
Acetic anhydride prices 1c. higher in West.
Acetoacetanilide, fib dms., c.l., dlvd lb. .80 - —
fib dms., l.c.l., dlvd lb. .81 - —
Acetoacet-o-chloroanilide, fib dms., c.l., dlvd lb. 1.35 - —
fib dms., l.c.l., dlvd lb. 1.36 - —
Acetoacet-o-toluidide, fib dms., c.l., dlvd lb. .82 - —
fib dms., l.c.l. dlvd ..... lb. .83 - —
Acetone, CP, dms., c.l., dlvd. lb. .10½- —
dms., l.c.l., dlvd ..... lb. .12 - —
tanks, dlvd. ..... lb. .08 — —
Acetonitrile, dms., c.l., frt. alld lb. .34½- —
dms., l.c.l., frt. alld ..... lb. .35 - —
tanks, frt. alld ..... lb. .32 - —
Acetophenetidin, USP, powd., 200-lb. dms., 1,000 lbs., frt. alld lb. 1.20 - —
100-lb dms. 1,000 lbs. frt. alld. lb. 1.22 — —
Acetophenone, cns. dms ..... lb. 42 1.30
Tech., dms., c.l., works ..... lb. .47 — —
dms., l.c.l., works ..... lb. .47¾- —
tanks, works ..... lb. .45 - —
N-Acetyl-p-aminophenol, dms., t.t. (min 23.000 lbs.), frt. adjusted lb. 1.30 - —
dms., 1,000-lb. lots, same basis lb. 1.40 - 1.45
dms., 100-lb. lots, same basis lb. 1.54 - 1.57
Acetylene black, imp. bgs., c.l., duty and freight extra lb. .20 — —
cs., l.c.l., ex whse ..... lb. .25½- .31
Acetylene tetrabromide, 16-dm. lots or more, f.o.b. works lb. .53 — —
Acetylsalicylic acid, USP, cryst (20, 40 mesh), powd (80 mesh), 250-lb. dms., c., pt. of shipt lb. .56¼- —
USP 10% starch granulation, 12-50 mesh, white, 250-lb. dms., c.l., same basis lb. .56¼ —
(Pink and green granulations 5c. per lb higher.) Freight equald, shipt. identical quantity over standard routes, from N.Y., Phila., Midland, Mich., Chicago and St. Louis
Acetyltributyl citrate, tech., non-ret dms. c.l., frt alld. E. of Denver lb. .35½- —
non-ret. dms., l.c.l., frt. alld E. of Denver lb. .36½- —
tanks, frt alld E of Denver, lb. .33 — —
Acetyltriethyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .39½- —
non-ret dms., l.c.l., frt. alld. E. of Denver lb. .40½- —
tanks, frt. alld. E. of Denver lb. .37 — —

ACIDS
Acid quotations are listed individually. For example, prices on Acid, cresylic, may be found in the C's under Cresylic acid.

Aconite root, bls lb .50 .55
Acrolein, tech., dms., c.l., works lb .36 — —
dms., l.c.l., works ..... lb. .36¾ - —
tanks, works ..... lb. .31 - —
Acrylamide, dms., t.l., f.o.b. works. lb. .58 — —
dms., l.t.l., same basis lb. .60 — —
Acrylic acid, glacial, dms., c.l., t.l., dlvd lb. .42½- —
dms., l.c.l., l.t.l., dlvd ..... lb. .43½- —
tanks, dlvd. ..... lb. .40 — —
tech., esterification, tanks, frt. alld. ½ .38 — —
tech., polymerization, tanks, same basis lb. .38 — —
Acrylonitrile, dms. c.l., t.l., frt. equald lb. .26 - —
dms. l.c.l., l.t.l., frt. alld ..... lb. .27 - —
tanks, frt. equald ..... lb. .23 - —

Abies Siberica Oil—Ammonium Bicarbonate

Adeps lanae (see lanolin).
Adipic acid, bgs., c.l., dlvd..... lb. .32¼- —
bgs., l.c.l., dlvd. ..... lb. .35 — —
Agar, USP Kobe No. 1, strip, bls lb. 3.00 - 3.10
powd., 30 mesh., fib. dms lb. 2.40 - 2.60
dl-Alanine, dms., 100-lbs or more, f.o.b works lb 5.25 - —
dms. 1-99 lbs., same basis lb.10.00 - —
Aldol, 95%, dms., l.c.l., works lb. .28 - —
Aldrin, tech. fib dms. c.l., t.l. dlvd lb. .99 - —
fib. dms. l.c.l. dlvd lb. 1.04 - —

ALCOHOLS
Alcohol quotations are listed individually. For example, prices on Alcohol, furfuryl, may be found in the F's under Furfuryl alcohol.

Aletris root, bgs lb 1.50 1.75
Algin (see Sodium alginate)
Alizarin (see 1,2-Dihydroxy anthraquinone).
Alkali blue dry, 250-lb. bbls., dlvd. E. of Rockies lb. 2.45 - —
Alkali blue prices 1c higher W of Rockies

Allethrin, 90%, dms., frt. alld lb.28.80 -28.90
Soln., 20%, dms., 200-2,000 lb lots, frt alld lb. 6.50 6.55
2½% dms frt alld. lb. .95 1.10
Allspice oil (see Pimento oil).
Allyl alcohol, dms., c.l. dlvd..... lb. .32½- —
dms., l.c.l., dlvd..... lb. .34 - —
tanks, dlvd. ..... lb .30 - —
Allyl bromide 55-lb cbys 5,005 lbs or more, works lb. 1.50 - —
55-lb. cbys., 1,045 to 4,- lbs works lb. 1.53 - —
55-lb. cbys., 55 to 990 lbs works lb. 1.60 - —
Allyl chloride, dms., c.l., dlvd lb. 17½- —
dms., l.c.l., dlvd..... lb. .19 - —
tanks, dlvd ..... lb. .15 - —
Allyl isothiocyanate (see Mustard Oil, syn.).
Almond oil, artif., bitter (see Benzaldehyde)
Almond oil nat., bitter, f.p.a., bots. lb 2.75 3.45
NF, bots. ..... lb 3.00 3.30
sweet, USP, cns., dms..... lb. .60 - .70
Aloe, Cape, cs. ..... lb. .35 - .40
powd., cs. ..... lb .80 .85
Curacao, kgs. ..... lb .75 - —
powd., kgs. ..... lb. .85 - —

Abbreviations

Used in OPD Market Quotations

alld	allowed	distr.	distributor	No.	number
amorph	amorphous	djns.	demijohns	nom.	nominal
AMP	American melting point	dlvd.	delivered	o-	ortho
anhyd.	anhydrous	dms.	drums	ord.	ordinary
AOAC	Association of Official Agricultural Chemists	dom.	domestic	oz	ounce
		E.	east	p-	para
a.p.a.	available phosphoric acid	e.p.	end point	Pac.	Pacific
approx.	approximately	equald.	equalized	pf	proof
artif	artificial	exp.	expressed	phos.	phosphate
ASTM	American Society for Testing Materials	Ext.	external	photo.	photographic
		F.	fahrenheit	pkgs.	packages
Atl.	Atlantic	ferment.	fermentation	powd.	powdered
Be.	Baume	f.f.a.	free fatty acid	precip.	precipitated
bbls.	barrels	f.f.c.	free from chlorine	prod.	producer
bgs.	bags	fib.	fiber	pt	point
bls.	bales	f.o.b.	free on board	pulv.	pulverized
bots.	bottles	f.p.a.	free of prussic acid	purif.	purified
b.p.	boiling point	frt.	freight	redist.	redistilled
b.p.l.	bone phosphate of lime	gal.	gallon	refd.	refined
b.r.	boiling range	gran.	granular	refy.	refinery
bxs.	boxes	grd.	ground	reg.	regular
C	centigrade	i.&a.	iron and aluminum	resub.	resublimed
cbys.	carboys	i.b.p.	initial boiling point	ret.	returnable
CD	completely denatured	imp.	imported	SD	specially denatured
c.i.f.	cost, insurance, freight	incl.	included	s.d.	single distilled
cks.	casks	indust.	industrial	S.E.	southeast
c.l.	carlots	kgs.	kegs	sec.	secondary
cns.	cans	l-	laevo	secs	seconds
coml.	commercial	lacq.	lacquer	s.g	specific gravity
conc.	concentrated	lb	pound	shipt.	shipment
CP	chemically pure	l.c.l.	less carlots	soln.	solution
cps.	centipoises	l.t.l.	less truckload	s.u.	standard unit
cryst.	crystalline	liq.	liquid	syn.	synthetic
cs	cases	mfrs.	manufacturers	tanks.	railroad tankcars
ctns.	cartons	m-	meta	tech.	technical
cyls.	cylinders	m.a.p.	mixed aniline point	tert-	tertiary
d-	dextro	min.	minimum	t.l.	truckloads
dbl.	double	m.p.	melting point	t.w.	tankwagons
denat.	denatured	N-	nitrogen	USP	U. S. Pharmacopoeia
dest-dist.	destructively—distilled	n-	normal	vis.	viscosity
dl-	dextro-laevo	nat.	natural	VM&P	varnish makers & painters
dist.	distilled	neut	neutral	W.	west
		NF	National Formulary	whse.	warehouse
		NNR	New and Nonofficial Remedies	w.w	water-white

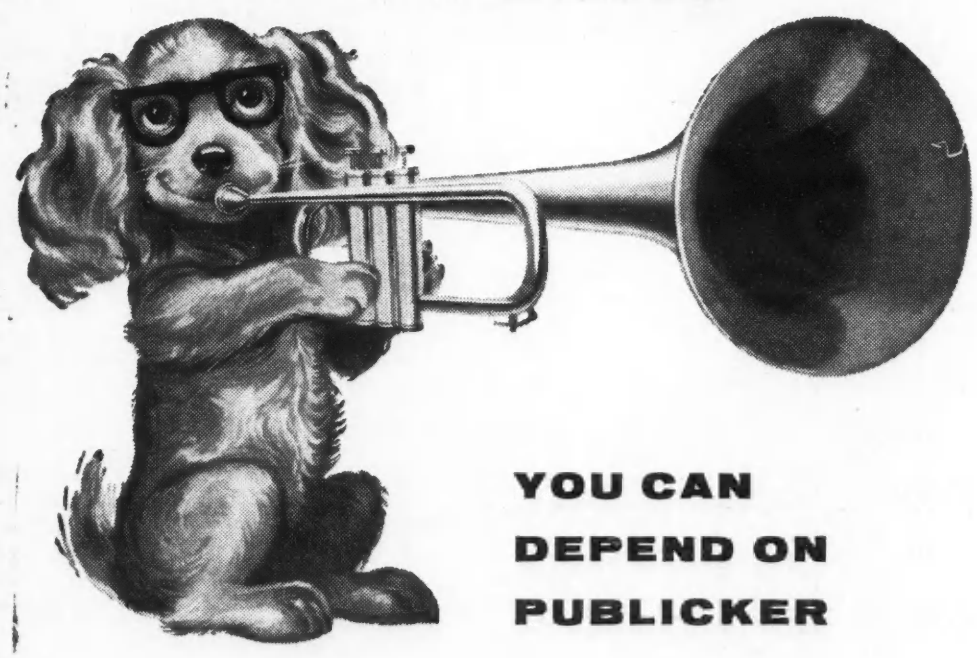
A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material

Alois, USP, bbls., dms., kgs... lb 2.35 2.75
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpinol (see a-Terpinol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs 4.30 - —
Lump, dms., works ... 100 lbs 5.05 - —
Powd. dms. works ....100 lbs 5.20 — —
USP, burnt., dms ..... lb. .20 .21
hydrous, dms ..... lb. .07¾ .08
Alum, potassium, gran., bgs. works. 100 lbs 4.55 — —
Lump, dms., works .... 100 lbs 5.30 — —
Powd. dms., works..... 100 lbs 5.45 — —
USP, burnt., dms ..... lb. .20 .21
USP hydrous dms ..... lb. .07¾ .08
Alum, potash-chrome, dms .... lb. .17 — —
Alumina, calcined bgs. c.l., works. lb. .0535- —
bgs., l.c.l., works..... lb. .056 .0635
Aluminum acetate, basic soln., 24%, bbls. l.c.l. works lb. .14 — —
Aluminum chloride, coml., anhyd., dms., c.l., works, frt. equald lb. .16 - —
dms. l.c.l. works lb. 16½- —
cryst. dms. c.l. works 100 lbs.21.00 — —
dms., l.c.l. works 100 lbs.21.50 — —
Soln., 32° cbys., c.l., works lb. .0495- —
cbys., l.c.l., works lb. .0570- .1000
tanks, works 100 lbs. 3.95 — —
NF, gran., dms. works lb. .31 .33
Aluminum fluoride tech., anhyd., bgs., c.l., works lb. .16¼ - —
bgs., l.c.l. works lb. .17¼ - .19¼
bulk, c.l. basis 80% ... lb. .14½- —
Aluminum fluoride in fib. dms. 0.35c per lb higher
Aluminum formate, basic soln., containers extra, c.l., works. 100 lbs.11.00 - —
containers extra, l.c.l., works. 100 lbs.11.50 - —
Aluminum hydrate, heavy, bgs., c.l., frt. equald lb. .0370- —
bgs., 20,000-40,000 lb. lots, same basis lb. .0395- —
bgs., 2,000-20,000 lb. lots, same basis lb. .0495- —
bulk, c.l., same basis ..... lb. .0330- —
Light, bgs., c.l., t.l., works..... lb. .09½- —
bgs., t.l., to c.l., works..... lb. .10½- —
bgs., l.c.l., works..... lb. .11½- —
Aluminum hydroxide, dried, USP XV fib dms., works lb. .82½ — —
fib dms., contract, works lb. 79½- —
Aluminum hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib dms., works lb. .22 — —
9-9½% Al_2O_3, fib dms. works. lb. .19 — —
fib dms. contract, works lb. .18 - —
Aluminum hydroxide, tech., powd., (see Aluminum hydrate)
Aluminum metal, 99½% + 30-lb ingots, 10,000-lb lots, frt. alld lb. .2810- —
50-lb pigs, 10,000-lb lots, frt alld. lb. .26 — —
Aluminum oxide, amorphous (see Alumina, calcined)
Aluminum paste lining, extra-fine, dms lb. 71 — —
Standard grade, dms lb. 48½- —
Aluminum powder, lining, extra-fine, dms lb 1.13 — —
Standard grade, dms lb .83 — —
Aluminum paste and powder prices are f.o.b. shipping point. Add 1c per lb for 100-lb dm., 1½c per lb for 50-lb dm., 3c per lb. for 10 lb can and 5c to 12c per lb. for smaller containers. Deduct 1c per lb for single shipment of 400 to 1,499 lbs., 2c for 1,500 to 4,999 lbs., 3c for 5,000 to 29,999 lbs and 4c for 30,000 lbs. or more. Where destination is within the continental U. S. a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or more
Aluminum resinate, precip., 2.1% Al, dms lb. .45 — —
Aluminum stearate, dibasic, ctns., c.l lb. .39 — —
ctns., l.c.l. ..... lb .40 .44
Monobasic, ctns., c.l. ..... lb .39 — —
ctns., l.c.l. ..... lb .40 .44
Tribasic, ctns., c.l. ..... lb .39 — —
ctns., l.c.l ..... lb .40 .44
Aluminum sulfate, coml., grd., bgs c.l., works, frt. equald ton.41.00 — —
bulk, c.l., same basis ton.40.00 - —
lump, bgs., c.l., same basis ton.44.00 — —
iron-free, bgs., c.l., works, frt. equald 100 lbs 3.80 — —
bgs. l.c.l., works, frt. equald 100 lbs 4.30 8.30
USP, gran., 400-lb dm., works, lb .30 — —
USP, powd., dms., works lb .27 — —
Aluminum sulfate prices $1 per ton higher in the South
Aluminum trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots oz. 6.50 10.00
p-Aminoacetanilide, tech., paste, dms., frt. alld lb. 1.57 — —
Aminoacetic acid, NF, bbls., frt. adjusted lb. 1.35 1.60
Aminoazotoluene base, bbl., 100% basis lb. 1.15 1.18
p-Aminobenzoic acid, tech., dry, dms., works lb 1.72 — —
2-Amino-4-chlorophenol, tech., sol'd dms., frt. alld lb. 2.15 3.85
p-Aminodiphenylamine, tech., solid, dms., frt. alld lb 3.00 — —
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .475 — —
dms., l.c.l., dlvd ..... lb. .49 — —
tanks, dlvd ..... lb. .45 — —
2-Amino-2-methyl-1-propanol, dms., c.l., frt. alld lb. .44 — —
dms., l.c.l., frt. alld. lb. .45 - —
tanks, frt. alld. lb. .42 — —
m-Aminophenol, dist., dms., ton lots. lb 2.05 — —
dms smaller lots. lbs. 2.50 — —
p-Aminophenol, dms., frt. alld. lb 1.15 — —
Aminophylline, USP, 100-lb. dm., frt. alld lb. 3.25 — —
p-Aminosalicylic acid, dms., 100 lbs. or more, frt. adjusted lb. 3.40 — —
Ammonia, anhyd., fertilizer tanks, works, frt equald E. of Rockies ton.92.00 — —
refrigeration tanks, works, frt. equald E. of Rockies ton.94.50 — —
Aqueous, 29.4%, tanks, works, anhyd. basis, E. of Rockies ton.95.00 - —
Ammoniacal liquor (see Ammonia, aqueous).
Ammoniac, sal., gray, bgs., c.l. works, frt equald 100 lbs 8.25 — —
bgs. l.c.l., same basis 100 lbs. 8.65 12.65
Ammoniac, sal., white (see Ammonium chloride, tech.)
Ammonium acetate, purif., dms lb .40 — —
Ammonium benzoate, USP, 100-lb. dms., 1,000-lb. lots, works lb 1.90 — —
Ammonium biborate, gran., dms., c.l., works ton 325 — —
dms., ton lots, ex whse 100 lbs.22.86 - —
dms., smaller lots, ex whse 100 lbs 24.11 - —
Ammonium bicarbonate, dom., dms., c.l., works 100 lbs 7.00 — —
dms. l.c.l. works 100 lbs 9.00 — —

Ammonium bichromate, dms., works lb. 42 .43
Ammonium bifluoride dms., dlvd lb. 2145- .2245
Ammonium bromide, NF gran., dms., c.l. t.l. frt equald lb. 44 - —
dms. l.c.l., same basis lb. 46 - —
Ammonium carbonate USP lump, dms c.l lb. 15½- —
Ammonium chloride, white tech., fine gran. bgs. c.l. works 100 lbs 6.00 —
bgs., l.c.l., works 100 lbs 8.00 8.45
USP gran. 250-lb dm lb. 17¼ —
Ammonium citrate dibasic 250-lb. dm f.o.b works lb. 77 - —
Ammonium dichromate (see Ammonium bichromate)
Ammonium fluoride (see Ammonium bifluoride)
Ammonium gluconate tech., 200-lb. dm. f.o.b works E lb. 45 - —
Ammonium hydroxide (see Ammonia aqeous)
Ammonium iodide NF, 25-lb. jar, f.o.b. works lb. 4.51 - —
Ammonium lauryl sulfate, dms., c.l., frt. alld lb. 20½- —
dms., t.t.l. frt. alld lb. 21½- —
tanks, frt alld lb. 19½- —
Ammonium lignin sulfonate, bgs., c.l. works 100 lbs 3.25 —
bgs. l.c.l., works 100 lbs 3.40 3.65
Ammonium linoleate, 80%, dms., works lb. .50 .55
Ammonium molybdate, CP, cryst., 400-lb dms. 15,000-lbs works. lb. 1.22 - —
400-lb dms. 2,000-lb contracts, works lb 1.23 - —
400-lb dms. works lb. 1.24 - —
Ammonium nitrate, dom., tertilizer grade 33.5% N bgs. f.o.b works ton.67.00 - —
Ammonium nitrate, dom., with dolomite 20.5% N, bgs., c.l., Hopewell, Va ton.48.00 - —
Imp., Canadian, 33.5% N. eastern, bgs., c.l., ship't point frt. equald to $3 ton base price ton.70.00 - —
Ammonium oxalate, tech., fine gran., 250-lb dm., f.o.b works E lb. .28½- —
Tech., powd. 200-lb dm., same basis lb. .28½- —
Ammonium pentaborate, gran. bgs., c.l. works ton.193.00 - —
bgs., ton lots, ex whse 100 lbs.15.27 - —
bgs., smaller lots, ex whse 100 lbs.16.52 -18.52
Ammonium pentaborate powder $10 per ton higher in bags.
Ammonium persulfate, tech., dms., 10-ton lots or more, works lb. .18 - —
dms., smaller lots, works lb. .20 - .23
Ammonium phosphate, comi., bgs., c.l., works, frt. equald lb. .09¼- —
bgs., l.c.l., same basis lb. .10 - —
Dibasic, NF, V, bbls., dms lb. .46 - —
Dibasic, tech., bgs., c.l., works, frt. alld lb. .09¼- —
Ammonium silicofluoride, dms., works lb. .12¼- .13¼
Ammonium sulfamate, bgs., c.l., t.l., works lb. .19 - —
bgs., l.c.l., works lb. .20½- .27
Ammonium sulfate, standard granular, bulk, f.o.b. works, base price ton.32.00 - —
Ammonium sulfate, standard, gran., purif., c.l., 100-lb bgs., f.o.b. works lb. .08½- —
Large granular, bulk, c.l. works ton.35.00 - —
bgs., c.l., works ton 40.00 - —
Tech., bulk, c.l., t.l., works ton 52.00 - —
bgs., c.l., t.l., works ton.56.00 - —
bgs., l.c.l., t.t.l., works 100 lbs 3.20 - 5.20
Ammonium sulfide, liq., 40-44%, tanks, frt equald., 100% basis. ton.160.00 - —
Ammonium sulfocyanide, tech. (see Ammonium thiocyanate).
Ammonium thiocyanate, tech., cryst., dms., c.l., works lb. .20 - —
dms. l.c.l., works lb. .22 - .26
Tech, soln., 50%, tanks, frt. equald., basis ammonium thiocyanate content lb. .17¼- —
Ammonium thioglycolate, comi., 55-gal. dms., ton lots, 100% basis lb 1.15 - —
d-Amphetamine hydrochloride, monobasic, dms lb.17.50 -23.50
dl-Amphetamine hydrochloride, dibasic dms lb. 4.50 - 6.00
d-Amphetamine phosphate, fib. dms., 100-lb. lots lb.15.00 - —
dl-Amphetamine phosphate, dms.lb. 4.20 - 5.60
d-Amphetamine sulfate, fib. dms. lb.15.00 -17.00
dl-Amphetamine sulfate, fib. dms., lb. 4.20 5.60

Amyl acetate, ex fusel oil, tech., dist., from 125° to 150°C., dms., c.l., frt. alld. E of Rockies lb. .18½- .19
dms., l.c.l., same basis lb. .20 - .20½
tanks, same basis lb. .16 - .16½
Amyl acetate, ex pentane, reg., dms., c.l., dlvd lb. .19 - —
dms., t.c.l., dlvd. lb. .21½- —
tanks, dlvd. lb. .16½- —
tech., dms., c.l., dlvd. lb. .17 - —
dms., l.c.l., dlvd. lb. .18½- —
tanks, dlvd. lb. .14½- —
Amyl acetate, syn., oxo process, dms., c.l., dlvd lb. .19 - —
dms., c.l. dlvd. lb. .20½- —
tanks, dlvd lb. .16½- —
Amyl alcohol, ex fusel oil (see Fusel oil refd).
Amyl alcohol, ferment, refd., 128°-132°C., dms., l.c.l., dlvd lb. .43½- —
refd., ACS grade, dms., l.c.l., dlvd lb. .45½- —
ex pentane, mixed amyls, dms., c.l., frt. alld lb. .19 - —
dms., t.c.l., frt. alld lb. .20½- —
tanks, frt. alld. lb. .16½- —
Amyl alcohol, primary, dms., c.l., frt. alld lb. .20¼- —
dms., t.c.l., frt. alld lb. .21¾- —
tanks, frt. alld lb. .17¾- —
Sec-synthetic, dms., c.l., works, frt. alld lb. .19 - —
dms., t.c.l., same basis lb. .20½- —
tanks, same basis lb. .17 - —
Tert-synthetic, dms., c.l., frt. alld. E lb. .17 - —
dms., t.c.l., frt. alld. E lb. .18½- —
tanks, frt. alld E. lb. .14½- —
Amyl alcohol, 1-pentanol (syn. normal), dms., c.l., works lb. .41½- —
dms., l.c.l., works lb. .43 - —
tanks, works lb. .39½- —
2-pentanol, dms., c.l., works lb. .65 - —
dms., l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
Amyl n-butyrate, dms. lb. 1.00 - 1.25
Amyl cinnamic aldehyde, dms lb. 1.70 2.20
p-tert Amyl phenol, dms. c.l., works, lb. .28 - —
dms., l.c.l., works lb. .29 - —
Amyl salicylate, cns., dms. lb. .71 - —
Amyris oil, dms lb. 1.50 - —
Anethol, tech., dms. lb. .80 - .93
USP, cns., dms. lb. 1.05 - —
Angelica root, bls lb. .50 - 1.00
Angelica root oil, bots lb.120.00 -140.00
Angelica seed oil, bots lb.120.00 -130.00
Aniline dms. c.l., frt. alld lb. .20 —
dms., l.c.l., frt. alld. lb. .21 - —
tanks, frt alld lb. .18 - —
Aniline oil (see Aniline)
Aniline salt dms., c.l. t.l., 20,000 lbs. min., frt alld lb. .33 - —
dms., l.c.l., same basis lb. .35 - —
Anise oil, USP, dms lb. 1.90 - 3.00
Anise seed, Turkish, bgs. lb. .24 - —
Spanish, bgs. lb. .28 - —
Anisic aldehyde, dms lb. 1.50 - 2.20
o-Anisidine, dms., c.l., frt. alld lb. .80 - —
dms., l.c.l., same basis lb. .82 - —
tanks, same basis lb. .78 - —
p-Anisidine, dms., works lb. .97 - —
Anthracene, 90-95%, dms., c.l., t.l. f.o.b., works lb. .42½- —
dms., l.c.l., minimum shipment 1,000 lbs., same basis lb. .45 - —
Anthranilic acid, 99% 150-lb dms., dlvd lb. 1.15 - —
Anthraquinone, 99.5% bgs., c.l., frt alld lb. .70 - —
bbls., l.c.l., same basis lb. .73 - —
Electrical grade, bgs. l.c.l., same basis lb 1.10 —
Antimony butter (see Antimony trichloride).
Antimony metal, bulk, c.l., mines. lb. .29 - —
cs., c.l., mines lb. .29½- —
Antimony oxide, bgs., c.l., frt. alld. lb. .26½- —
bgs., l.c.l., frt. alld. lb. .28 - —
Prices of antimony oxide are 2% higher west of the Rockies.
Antimony sulfide, approx. 65%, bgs., 10,000-lb. lots, dlvd lb. .23 - —
bgs., smaller lots, dlvd lb. .24 - .26
Antimony trichloride, anhyd., solid, pails, c.l., works lb. .41 - —
pails, l.c.l., works lb. .43 - —
Antimony-potassium tartrate, tech., powd., 250-lb., dm., f.o.b. works, E lb. .69½- —
USP, powd., 250-lb dm., same basis lb. .74½- —
Apomorphine hydrochloride, USP, bots., 25-oz. lots oz.35.60 - —
Apricot kernel oil, USP, dms. lb. .55 - .70
Arabic gum, amber sorts, 10 bgs. lb. .21 - .23
USP, powd., bbls lb. .27 - .30
Areca nuts, powd., bbls. lb. .13 - —
Arecoline hydrobromide, NF, bots., tins, 100 oz. or more oz. 4.00 - —
l-Arginine, free base, dms., 10-kilo lots or more kilo.90.00 - —
l-Arginine glutamate, dms., 10-kilo lots or more kilo.64.80 - —
l-Arginine monohydrochloride, dms., 10-kilo lots or more kilo.60.00 - —
Arnica flowers (true Montana), bls. lb. 75 - —
Aromatic petroleum solvents (see Solvent Naphtha, petroleum, aromatic).
Arsenic, crude (95%), bulk, c.l., works lb. .016 - —
bbls., c.l., works lb. .0.31 - —
Arsenic trioxide, NF, powd., dms., 300-lbs., f.o.b. works lb. .48 - —
Arsenic, white, powd., bbls., c.l., works lb. .04½- —
bbls., l.c.l. works lb. .06½- .07¼
Arsenous acid, tech. (see Arsenic, white).
Arsenous acid, USP (see Arsenic trioxide).
Arylid maroons, deep shades, bbls. lb. 3.70 - —
Light shades, bbls. lb. 2.85 - —
Asafetida gum, cns lb. .36 - .40
Powd., bbls., dms lb. .75 - .80
Asbestine (see Talc, fibrous, New York).
Asbestos, Canadian crude
6D, c.l. (30 tons), mines ton.86.00 - —
7D, c.l. (30 tons), mines ton.75.00 - —
7F, c.l. (30 tons), mines ton.71.00 - —
7H, c.l. (30 tons), mines ton.61.00 - —
7K, c.l. (30 tons), mines ton.50.00 - —
7M, c.l. (30 tons), mines ton.44.00 - —
7R, c.l. (30 tons), mines ton.43.00 - —
7RF, c.l. (30 tons), mines ton.44.00 - —
7T, c.l. (30 tons), mines ton.41.00 - —
7TF, c.l. (30 tons), mines ton.44.00 - —
Asbestos prices are in Canadian funds; l.c.l. lots $4 per ton higher.
Ascorbic acid, USP, dms., 100-kilos. kilo. 6.80 - —
dms., less than 100-kilos kilo. 7.05 - 7.80
Ash, black (see Barium sulfide)
Asphalt, gilsonite, black jet, bgs., c.l., mines ton.43.00 - —
ex-whse, 5 tons or more, N. Y., N. J ton.89.50 - —
select, brilliant black, 340°-360°F. fusing pt., bgs., c.l., mines. ton.46.00 - —
270°-295°F. fusing pt., bgs., c.l., mines ton.43.00 - —
Asphalt, petroleum, cut-back, tanks, tankwagon, refy gal. .09½- —
emulsion, tanks, tankwagon, refy. gal. .09½- —
steam-refd., 50-80 penetration, tanks, tankwagon, refy ton.21.00 - —
85-300 penetration, tanks, tankwagon, refy ton.20.00 - —
Aspirin (see Acetylsalicylic Acid).

you're doggone tootin'



YOU CAN DEPEND ON PUBLICKER

For Uniform Quality—Steady Supply—Prompt Delivery

★ *Ethyl Alcohol* ★ *Ethyl Acetate* ★ *Butyl Alcohol* ★ *Butyl Acetate*
★ *Butyl Chloride* ★ *Isoamyl Alcohol* ★ *Acetone* ★ *Acetaldehyde*
★ *Acetic Acid* ★ *Amyl Acetate* ★ *Refined Fusel Oil* ★ *Proprietary Solvent*
★ *THERMICE brand of CO_2 (gas, liquid, solid)*

PUBLICKER INDUSTRIES Inc.
1429 WALNUT STREET, PHILADELPHIA 2, PA.
NEW YORK • NEW ENGLAND • PUBLICKER ALCOHOL & CHEMICAL SALES CORP.
PHILADELPHIA—LOCUST 4-1400 • NEW YORK—OXFORD 5-4160 • BOSTON—HOMESTEAD 9-0022
MIDWESTERN DISTRIBUTORS, PUBLICKER CHEMICAL CORP.
CHICAGO—RANDOLPH 6-1557-8-9 • WESTWEGO, LOUISIANA—FILMORE 7-1486

Atropine, NF, tins ..... oz. 6.50 - 7.90
Atropine sulfate, USP, bots ..... oz 5.25 5.75
Azelaic acid, bgs., c.l., divd. .... lb. .40 - —
bgs., ton lots, same basis ..... lb. .41 - —

B

Bacitracin, sterile, over 500,000,000 units 50,000 units. .90 - —
non-sterile, over 500,000,000 units, 50,000 units. .65 - —
Balm of Gilead buds, dried, bgs lb. 1.25 1.35
Barberry root bark, bgs lb 1.00 1.10
Barbital, NF 100-lb dms., f.o.b works lb 4.50 - —
Barbital sodium, NF, 100-lb dms., works lb 4.75 - —
Barium carbonate, precip., bgs works ton.111.50 - —
bgs. smaller lots, works ton.126.50 - —
Barium chlorate, dms., works lb 32 - .41
Barium chloride anhyd., bgs. c.l., works ton.176.00 - —
bgs., t.c.l., works ton.196.00 - —
NF, cryst., dms., 400-lbs., works.lb 23 - —
Tech. cryst. bgs c.l. works. 100 lbs 7.00 - —
bgs., t.c.l. works 100 lbs 8.00 - —
Barium chromate, bgs. frt. equald. lb. .38 - —
Barium dioxide (see Barium peroxide)
Barium hydrate, cryst., bgs., c.l., t.l., frt. equald ton.208.00 - —
bgs., t.c.l., t.l. frt equald ton.218.00 - —
Barium monohydrate, 99%, bgs. c.l. frt equald 100 lbs.11.25 - —
bgs., t.c.l., frt equald 100 lbs.11.75 - —
Barium monoxide (see Barium oxide)
Barium nitrate, bbls. c.l., t.l. divd lb 16 - —
bbls., t.c.l., t.l.c. divd lb 17 - —
Barium oxide, grd, dms., c.l., t.l. frt equald ton275.00 - —
dms. t.c.l. t.l. frt equald ton 285.00 - —
Barium peroxide, dms. frt equald lb .20 —
Barium stearate, ctns. c.l. frt alld. lb .41 - —
ctns. t.c.l. same basis lb. .42 .46
Barium sulfate, tech (see Barytes and blanc fixe).
Barium sulfate, X-ray 100-lb dm. lb. .19 - —
Barium sulfide, dms. c.l. works. ton.100.00 —
dms., t.c.l., works ton 110.00 —
Barytes, southern off-color, bgs. mines ton 30.00 - —
95-75%, bgs., mines ton.30.00 - —
white, water-grd, paper bgs. c.l. St. Louis ton.60.00 -60.25
paper bgs. ex whse New York ton 84.85 —
Battery acid, cbys., c.l., works, E. 100 lbs 2.35 —
cbys, t.c.l., works, E. 100 lbs 2.65 -10.95
Bauxite, bulk, mines ton 7.00 -10.00
Bay oil, NF, Puerto Rican, 50-55% cns lb. 3.25 - —
55-60%, cns. lb. 3.60 - —
NF, West Indian, 50-55% cns. dms lb. 3.75 - —
Bayberry wax, bgs lb. .65 - .70
Beeswax, crude, African, bgs lb. .54 - .55
Brazilian, bgs. lb. .58 - .59
Central American, bgs. lb. .57 - .58
Chilean, bgs lb. 59 Nom
Refd. USP bleached white, bricks 100-lb. ctns lb. .67 - .69
white, slabs, 100-lb. ctns lb. .66 - .68
yellow, bricks 100-lb c.ns lb 59 - .61
yellow, slabs, 100-lb ctns lb 58 - .60
Belladonna leaf, bls lb. .24 - .26
Belladonna root, bls lb. .35 - .38
Bentonite, dom 200 mesh, bgs., c.l., mines ton.14.00 - —
Imp. Italian, white, high gel., bgs., 5-ton lots, ex whse ton.95.20 - —
bgs., 1-ton lots, ex whse ton.99.00 - —
Imp. Italian, white, low gel., bgs., 5-ton lots, ex whse ton.93.40 - —
bgs., 1-ton lots ex whse ton.97.16 - —
Benzal chloride, cbys., works lb. .44 - —
Benzaldehyde, NF, dms. lb. .74 - —
Tech., dms., c.l., t.l. lb. .42 - —
dms., t.c.l. lb. .44 - —
Benzene, pure or nitration, tanks, works:
Baton Rouge, La. gal. .34 - —
Bethlehem, Pa. gal. .34 - —
Birmingham district gal. .34 - —
Chicago district gal. .34 - —
Cleveland district gal. .34 - —
Geneva, Utah gal. .34 - —
Houston, Tex. gal. .34 - .40
Johnstown, Pa. gal. .34 - —
Benzene, pure or nitration, tanks, works:
Lorain, Ohio gal. .34 - —
Middletown, Ohio gal. .34 - —
Mennequa, Colo. gal. .34 - —
Philadelphia district gal. .34 - —
Pittsburgh district gal. .34 - —
Port Arthur, Tex. gal. .34 - —
Benzene, pure or nitration, tanks, works:
St. Louis, Mo. District gal. .34 - —
Sparrows Point, Md. gal. .34 - —
Syracuse, N. Y. gal. .34 - —
Terre Haute, Ind. gal. .34 - —
Youngstown, Ohio gal. .34 - —
Lackawanna, N. Y. gal. .34 - —
Lone Star, Tex. gal. .34 - —
Benzene hexachloride, 25% and 99% gamma isomer (see Lindane).
Benzene hexachloride, tech., high gamma, bgs., c.l., t.l., consignment, divd gamma-unit. .0075- —
bgs., c.l. t.l., direct sale, f.o.b. works gamma-unit. .0063- —
Tech. low gamma, bgs., c.l., t.l., consignment, divd gamma-unit. .0075- —
bgs., c.l., t.l., direct sale, f.o.b. works gamma-unit. .0056- —
Benzidine hydrochloride, bbls., c.l., frt. alld., 100% basis lb. 1.19 - —
bbls., t.c.l., same basis lb. 1.21 - —
Benzidine sulfate, tech., bbls., frt. alld., 100% basis lb. 1.21 - —
Benzidine yellow, AAA, bbls., dlvd. lb. 2.20 - —
AAOT, bbls., divd. lb. 2.55 - —
Lightfast, bbls., divd. lb. 3.40 - —
Benzocaine, dms., 100-lbs., frt alld. lb. 3.25 —
Benzoic acid, tech., dms., c.l., t.l., frt. alld lb. .25 - .37
dms., t.t.l., same basis lb. .29 - .41
tanks, same basis lb. .21 - —
USP, bbls., dms., ton lots lb. .48 - —
bbls. dms., 1,000-lb lots lb .50 —

BENZOL
Benzol quotations, both coaltar and petroleum, may be found under Benzene.

Benzoin gum, Sumatra, cs. lb. .32 —
Benzophenone, dms lb. 1.35 - 1.40
Benzotriazole, tech. dms., 1,000-lb lots, works lb. 1.95 - —
Benzotrichloride, cbys., 400-lb lots or more, frt. equald.lb .21 - —
cbys. smaller lots, frt. equald lb. .23 - —
Benzoyl chloride, cbys. dms. c.l., works, frt. equald lb. .22 - —
cbys., t.c.l., same basis lb .23 - —
tanktrucks, divd Metropolitan area lb. .21 - —

Benzoyl peroxide, purif., fib. dms., 50 to 1,000-lb lots, works lb. .96 - 1.08
Benzyl acetate, f.f.o., cns., dms lb. .54 - —
Benzyl alcohol, NF, dms. lb. .54 - —
Tech., dms., divd. lb. .47½- .55
Benzyl benzoate, USP, 40-lb. dms.lb. .63 - —
Benzyl chloride, tech., dms., c.l., f.o.b. frt. equald. lb. .23 - —
dms., t.c.l., same basis lb. .24 - —
tanktrucks, divd., Metropolitan area lb. .21 - —
Benzyl cinnamate, cns. lb 3.30 3.60
N-Benzyl-N,N-dimethylamine, 50 dms., frt. alld lb. 1.25 - —
12-49 dms., same basis lb. 1.35 - —
1-11 dms., same basis lb. 1.90 - —
Benzyl formate, cns. lb. 1.70 - 1.85
Benzyl isoeugenol, cns. lb. 8.20 8.30
Benzyl propionate, bots. lb. 1.30 - 1.35
Benzyl salicylate, bots lb. 1.50 - 1.85
Benzylidine acetone, bots lb. 1.65 - 1.75
Benzylidine chloride (see Benzal chloride).
Berberine bisulfate, cns lb 56.50 - —
Berberine hydrochloride, bots lb.56.50 - —
Bergamot oil, nat. NF Italian, cns. lb.11.00 -12.00
Betagammapicoline (see b,g-Picoline).
Betahydroxynaphthoic acid (see b-Oxynaphthoic acid).
Betamethylnaphthalene (see Methylnaphthalene)
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine)
Betaoxynaphthoic acid (see b-Oxynaphthoic acid).
Betaphenylethylamine (see b-Phenylethylamine)
BHC (see Benzene hexachloride tech.).
Biotin cryst. bots gram 10.00 —
Biphenyl (see Diphenyl).
Birchtar oil crude cns lb 1.50 1.90
Rectified, cns. lb 1.75 2.00

Bismuth chloride, fars. lb 5.11 - —
Bismuth hydroxide, dms. lb 4.00 4.08
Bismuth metal, bxs. ton lots. lb. 1.25 —
Bismuth nitrate, cryst., 200-lb. dm. lb. 2.25 - —
Bismuth oxychloride, 25-lb. dm., f.o.b. works lb. 4.92 - —
Bismuth subcarbonate, USP, 25-lb. dm., f.o.b., works lb. 3.70 - —
Bismuth subgallate, NF 200-lb dm. f.o.b. works lb 3.98 - —
Bismuth subiodide fib dms lb 5.37 - —
Bismuth subnitrate NF 200-lb dm. f.o.b., works lb. 3.10 - —
Bismuth subsalicylate USP 100-lb dm, f.o.b. works lb. 4.15 - —
Bismuth trioxide 100-lb. dms., f.o.b. works lb. 4.40 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Bisphenol-A bgs., c.l., t.l., single shipt., 70,000-lbs or more, frt. alld lb. .30½- —
bgs. c.l., t.l. less than 70,000 lbs., same basis lb. .31 - —
bgs., t.c.l., same basis lb. .32½- —
Blackberry root bark, bls lb 50 .55

BLACK PIGMENTS
Black pigment quotations are listed individually. For example, prices on Black, acetylene, may be found in the A's under Acetylene black

Blanc fixe, direct process, bgs. c.l., works ton.160.00 —
bgs., t.c.l., works ton.170.00 —
bgs., t.c.l., New York whse ton.215.00 —
Blood, dried 16-16½% ammonia, bgs., New York unit-ton 5.50 —
Bloodroot, bls. lb .85 .90

BLUE PIGMENTS
Blue pigment quotations are listed individually. For example, prices on Blue, ultramarine, may be found in the U's under Ultramarine blue

Blue dyes (see Dyes)
Blue vitriol (see Copper sulfate)
Bois de rose oil, Brazilian, dms lb 2.05 —
Peruvian, dms. lb 1.65 —
BON acid, maroons, pure, bbls lb 1.75 —
Resinated, bbls lb 1.50 —
Bone black, dms. c.l., frt. alld lb .1750 .2225
t.c.l., works lb .1950 .2425
Pacific coast bone black prices 3¼c per lb higher
Bonemeal, steamed, works, f. ton 80.00 —
Bone phosphate, defluorinated of lime (see Defluorinated phosphate).
Bone phosphate, precip (see Calcium phosphate, tribasic)
Borax, tech anhyd., 99½%, bgs., c.l., works ton 92.00 —
bgs. (ton lots, ex whse New York or Chicago 100 lbs. 7.67 - —
bgs. smaller lots, same basis 100lbs. 8.91 -10.91
bulk, c.l., works ton 83.00 —

Call Koppers . . .
specialists
for fine chemicals

Check these special services:

√ Need a special run?
√ Need a small batch to tank car load?
√ Want special intermediates for your process?
√ Want confidential development assistance?
√ Need quick development—fast?

CALL KOPPERS

Yes . . . for these and many other reasons, many manufacturers call Koppers for fine chemicals, components and intermediates.

You, too, should call Koppers for all your research, development and production requirements. *Don't do it yourself!* Call Koppers.

VMA 7708

Chemicals and Dyestuffs Division
KOPPERS COMPANY, INC.
Pittsburgh 19, Pa.

Please send booklet CD-9-51 on Koppers Chemicals Customizing to: O
Name _____ Title _____
Company _____
Address _____
City _____ Zone _____ State _____

KOPPERS

Borax, tech., gran., decahydrate, 99½% bgs. c.l., works, ton 50.00 - —
bgs. ton lots, ex whse, New York or Chicago 100 lbs. 5.31 - —
bgs. smaller lots same basis 100 lbs. 6.56 - 8.56
bulk c.l., works ton 43.50 —
pentahydrate, 99½%, bgs., c.l., works ton 64.50 - —
bgs. ton lots, ex whse, New York or Chicago 100 lbs. 6.12 - —
bgs. smaller lots same basis 100 lbs. 7.37 - 9.37
bulk, c.l., works ton 58.00 —
USP powd. bgs. c.l. works ton 54.00 —
bgs. ton lots ex whse New York or Chicago 100 lbs. 6.57 - —
bgs. smaller lots same basis 100 lbs. 7.82 - 9.82

Bordeaux powder tribasic bgs. c.l., dlvd lb. .24 —
bgs. t.c.l., same basis lb .26 —

Boric acid tech. anhyd 99.9% bgs., c.l. works ton 335.00 —
bgs. ton lots ex whse New York or Chicago 100 lbs. 21.27 - —
bgs. smaller lots same basis 100 lbs. 22.52 - 24.52
cryst. 99.9% bgs. c.l. works ton 163.50 —
bgs. ton lots ex whse New York or Chicago 100 lbs. 11.67 - —
bgs. smaller lots same basis 100 lbs. 12.92 - 14.92

Boric acid, tech. cryst. 99.9% dms. c.l., works ton 188.50 —
dms., ton lots, ex whse., New York or Chicago 100 lbs. 13.17 - —
dms., smaller lots, same basis 100 lbs. 14.42 - —

Boric acid, gran. 99.9%, bgs. c.l., works ton 112.00 - —
bgs. ton lots ex whse New York or Chicago 100 lbs. 8.78 - —
bgs. smaller lots same basis 100 lbs. 10.03 - 12.03
dms. c.l. works ton 137.00 —
dms. ton lots, ex whse, New York or Chicago 100 lbs. 10.29 - —
dms. smaller lots same basis 100 lbs. 11.54 - —
bulk c.l. works ton 106.00 —
powd., bgs., ton lots ex whse, New York or Chicago 100 lbs. 9.20 - —
bgs. smaller lots same basis 100 lbs. 10.45 - 12.45
dms., ton lots, ex whse., New York or Chicago 100 lbs. 10.71 - —
dms., smaller lots, same basis, 100 lbs. 11.96 - —
USP boric acid $25 per ton higher in bags.

Borneol, cns. lb. 2.75 - —

Boron trichloride CP 1,800-lb. cyls., works lb 1.25 - —
100-lb cyls. works lb 1.70 - —

Boron trifluoride gas, cyls., t.l., works lb. .70 - —
cyls., t.t.l. works lb. .70 - —

Brimstone (see Sulfur).

Broenner's acid bbls lb. 1.53 —

Bromine purif. cs. c.l., t.l., dlvd, E of Rockies lb .32 —
cs., t.t.l. same basis lb. .34 .39
ret. dms. c.l. t.l. dlvd E of Rockies lb .31 —
ret. dms. t.c.l. same basis lb. .31 .34
tanks, same basis lb. 21½ —

Bromochloromethane dms. c.l., frt. equald lb 48 —
dms. t.c.l. same basis lb 50 —
tanks, same basis lb 47 —

Bromoform, pharmaceutical grade, 5-gal. cby., frt. equald lb. 1.95 —

Bromstyrol, bots lb 5.25 5.35

Brucine cns oz Nominal.

Brucine sulfate, NF, cns. oz. 1.45 - 1.75

Buchu leaves, bbls. lb. .70 .75

BROWN PIGMENTS

Brown pigment quotations are listed individually. For example prices on Brown Iron oxide may be found in the I's under Iron oxide brown.

Butadiene (etd cyls. c.l., refy lb 21 —
cyls., t.c.l., refy lb .22 —
tanks, dlvd lb .12¾ —

Butene-1 tanks works lb 0625 —

Butene-2 tanks works lb 0570 —

n-Butyl acetate (ferment, dms., c.l., frt. alld lb. .17 —
dms., t.c.l., same basis lb. 18½ —
tanks, same basis lb. 14½ —
Syn. dms. c.l. dlvd E lb. .17 —
dms. t.c.l. same basis lb. .18½ —
tanks, same basis lb. 14¼ —

sec-Butyl acetate syn. dms., c.l., dlvd E lb .14¾ —
dms., t.c.l. same basis lb .16¼ —
tanks, same basis lb. 12¼ —

n-Butyl acrylate dms. c.l. or t.l., straight or mixed frt. alld. E lb. .37½ —
dms., t.t.l., same basis lb. .38½ —
tanks, same basis lb. .35 —

n-Butyl alcohol (ferment, dms., c.l., frt. alld lb .18 —
dms., t.c.l. frt alld lb 19½ —
tanks, frt. alld lb 15½ —

n-Butyl alcohol syn. dms., c.l., dlvd lb .18 —
dms., t.c.l., frt. alld lb .19½ —
tanks, dlvd lb .15½ —

Sec-synthetic dms., c.l., dlvd lb .15 —
dms., t.c.l., dlvd. lb. .16½ —
tanks dlvd lb. 12¼ —

n-Butyl alcohol, tert-synthetic, dms., c.l. frt. alld., dlvd E lb. 16 —
dms. t.c.l. same basis lb. .17½ —
tanks same basis lb. 13¼ —

Butyl aldehyde (see Butyraldehyde)

Butyl chloride dms. c.l. works lb .37½ —
dms. t.c.l. works lb .38¼ —

n-Butyl ether dms., c.l., works lb .35¼ —
dms., t.c.l., works lb .36 —
tanks, works lb .33¼ —

Butyl lactate dms. c.l. frt. alld E. Rockies lb 42½ —
dms., t.c.l., same basis lb. 43½ —
tanks, same basis lb 40 —

Butyl laurate, dms. works lb 37¼ —

Butyl methacrylate dms. c.l., t.l., works lb .55 —
dms. t.c.l. works lb. 55½ —

Butyl oleate retd. dms., t.c.l., works lb .32 —

Butyl phenylacetate, dms lb 4.50 4.60

Butyl phthalate (see Dibutyl phthalate)

Butyl stearate dms. c.l. frt. alld. E of Rockies lb 27¼ —
dms. t.c.l., same basis lb 28¼ —

Butylamine (see Mono- Di and Tri-butylamine)

tert-Butylamine dms. c.l., t.l., t.o.b. works lb 47 —
dms. t.c.l., same basis lb 47½ —
tc., t.l., same basis lb 45 —

Butylated hydroxyanisole, food grade dms dlvd lb 4.75 —

6-tert-Butyl-m-cresol (see Mono-tert-butyl-m-cresol).

Butylated hydroxytoluene (see 2,6-Di-tert-butyl-p-cresol).

1,3-Butylene glycol, dms. c.l., t.l., dlvd lb. .20½ —
dms., t.c.l., t.t.l., f.o.b. works lb. .22 —
tanks, dlvd lb. .18 —

p-tert-Butylphenol, bgs., c.l., dlvd., lb. .27½ —
bgs., t.c.l., works lb. .28½ —

Butyraldehyde, dms., c.l., dlvd lb. .22 —
dms., t.c.l., dlvd. lb. .23½ —
tanks, dlvd lb. .19½ —

Butyric acid, 99%, dms., c.l., frt. equald lb. .34 —
dms., t.c.l., same basis lb. .34½ —
tanks, same basis lb. .32½ —

Butyric ether (see Ethyl butyrate).

Butyrolactone dms., c.l., t.l., works. lb. .40 —
dms., t.c.l., same basis lb .43 —

n-Butyronitrile, dms., c.l., dlvd lb. .56½ —
dms., t.c.l., dlvd. lb. .57½ —
tanks, dlvd. lb. .54 —

C

Cacao butter (see Cocoa butter).

Cadmium CP red dark shade, bbls., frt alld E of Rockies lb 5.55 - —
Light shade, bbls., same basis lb 4.65 - —
medium shade, bbls. same basis, lb. 5.30 - —
Medium light shade, bbls., same basis lb 4.90 - —
Orange-red shade, bbls., same basis lb 4.30 - —
Yellow, all shades, bbls. frt alld E. of Rockies lb. 2.95 - —

Cadmium chloride, 400-lb. dms., f.o.b. shipping point lb. 1.49 - —

Cadmium iodide, 25-lb fib dms lb 6.75 7.00

Cadmium metal (melts of sticks, ton lots, cs., dlvd lb. 1.60 - —

Cadmium nitrate purif. cryst. 50-lb. dms., less than 5,000 lbs., f.o.b shipping point. lb. .89 - —
400-lb. dms., 5,000 lbs. or more, same basis lb. .87 - —

Cadmium-mercury lithopone orange, deep shade bbls frt alld E of Rockies lb. 1.70 - —

Cadmium-mercury lithopone red, dark shade, bbls same basis lb. 2.00 - —
Red, light shade bbls. same basis lb. 1.77 - —
Red, medium shade bbls. same basis lb. 1.92 - —
Red, medium light shade bbls. same basis lb. 1.85 - —
Red, maroon shade bbls. same basis lb. 2.08 - —

Cadmium-selenide lithopone maroon, bbls., frt alld E of Rockies lb. 2.81 - —
Orange, bbls., same basis lb. 1.63 - —

Cadmium-selenide lithopone red, orange-red shade bbls. same basis lb. 1.77 - —
Red, dark shade bbls. same basis lb. 2.61 - —
Red, light shade, bbls., same basis lb. 1.63 - —
Red, medium shade bbls. same basis lb. 2.28 - —
Red, medium-light shade bbls. same basis lb. 2.05 - —

Cadmium selenide, lithopone, yellow, all shades bbls. frt alld E. of Rockies lb. 1.24 - —

Caffeine NF citrated, dms 100 lb lots or more lb 2.70 - —
USP nat. cryst. annyd., dms., 100-lb lots or more lb 2.10 - —

Caffeine USP nat., cryst. hydrous, dms. 100-lb lots or more lb 1.96 - —
USP, nat., cryst., anhyd., powd., dms., 100-lb. lots or more, frt. alld lb. 2.10 - —
hydrous, powd., 150-lb. dms., frt. alld lb. 1.96 - —

Cajuput oil, native cns. lb 1.75 2.00
Redist USP cns lb 1.90 2.10

Calamine USP dms. lb .34 —

Calamus oil bots lb 12.00 20.00

Calciferol cryst., 10 kilo or more lots works gram .54 —
1-10 kilo lots gram .55 —

Calciferol in edible oil (see Viosterol).

Calcium p-aminosalicylate trihydrate fib dms 100 lbs or more frt adjusted lb 3.10 - —

Calcium bromide NF bars 100 lbs. or more lb. 1.10 - —

Calcium carbide standard generator size 600-lb dms. c.l., dlvd ton 149.00 —

Calcium carbonate nat., dry grd., air floated, 325 mesh, bgs. c.l. works ton 10.50 —

Calcium carbonate chalk, whiting, 325 mesh bgs. c.l. works ton 32.00 - 34.00
water grd ½ to 10 microns bgs., c.l. works ton 30.00 —
10 to 20 microns bgs. c.l. works ton 17.00 18.00

Calcium carbonate, precip., dense, bgs., c.l., works ton 30.00 - 38.50
bgs. c.l. works ton 45.00 53.50
medium bgs. c.l. works ton 38.00 —
bgs. t.c.l. works ton 48.00 53.00

Calcium carbonate, surface treated, bgs. c.l., works ton 42.00 - 44.00
bgs. c.l. works ton 57.00 59.00
ultrafine bgs. c.l. works ton 117.50 - 167.50
bgs. t.c.l. works ton 137.50 187.50

Calcium chloride comp. flake or pellet 94-97% paper bgs., c.l. works frt equald ton 39.30 - —
Flake 77-80% paper bgs., c.l., works frt equald ton 32.00 - —
Liquor 40% tanks frt equald ton 12.50 - —
Powd. 77% min. paper bgs. c.l., works frt equald ton 37.00 - —
Purif. gran. dms lb .27 —

Calcium chloride solid, 73-75%, dms., c.l., frt. equald ton 30.50 - —
dms t.c.l. works frt equald ton 36.00 - 73.00

USP gran. dms. lb .32 —

Calcium chromate, bgs. dlvd lb .37 —

Calcium cyclamate 100-lb dms lb 1.95 —

Calcium gluconate USP AA grade, 100-lb dm. ton lb. 73½ —
USP powd 100-lb dm. ton lb 66½ —

Calcium hydride lump dms. works lb 2.20 3.00

Calcium hypochlorite, high test, gran 45-lb cs. dlvd E of Rockies cs 23.85 - 25.60
100-lb dms same basis dlm 33.30 - 36.55

Calcium hypophosphite dms. 1,000-lb lots lb 1.28 —

Calcium iodide, 25-lb. jars, works lb. 4.27 —

Calcium lactate, NF, dms., f.o.b. works lb. .43 - .46

Calcium mandelate, USP, 150-lb. dm., works lb. 3.25 - —

Calcium naphthenate, liq., 4% Ca., dms., frt equald lb. .30 - —

Calcium pantothenate, USP, jars, 1 kilo or more kilo 35.00 - —

Calcium para-aminosalicylate (see Calcium p-aminosalicylate).

Calcium phenosulfonate, dms. lb. 1.24 - 1.25

Calcium phosphate, dibasic, USP, bgs. c.l. frt equald 100 lbs. 16.00 - —

Dibasic, feed grade, 18½% P, bgs., c.l., t.l., Bonnie, Fla., frt. equald ton 81.00 - —
bgs. c.l., t.l., f.o.b. Texas City works ton 75.50 - —
bgs., t.c.l., ton 96.00 - —

Calcium phosphate, dibasic, feed grade, 21% P., bgs., c.l., t.l., frt. equald ton 97.65 - —
bgs. t.c.l. frt equald ton 107.65 - —
Prices of calcium phosphate dibasic in bulk $3 per ton less than bgs. c.l. prices

Calcium phosphate monobasic, bgs., 10,000-lb lots, frt equald. 100 lbs. 7.45 - —
bgs., smaller lots, same basis. 100 lbs. 7.95 - —

Tribasic, NF, precip., bgs., c.l., works, frt. equald 100 lbs. 9.25 - —
bgs. t.c.l., frt. equald 100 lbs. 10.00 - —

Calcium propionate, any quantity, dms., dlvd E of Rockies. lb. .34½ —
Prices W of Rockies 3c. per lb. more.

Calcium phytate bgs., 50 lbs. or more f.o.b. warehouse N Y lb. .39 - —

Calcium resinate, precip., dms., frt. alld., works lb. .45 - —

Calcium silicate hydrated, bgs., c.l., works lb. .06 - —
bgs., t.c.l., works lb. .06½ —

Calcium silicate paint grade (see Wollastonite).

Calcium stearate, ctns., c.l. lb. .39 - —
ctns., t.c.l. lb. .40 - .44

Calomel, NF mild, powd., dms., 100-lbs., f.o.b. works lb. 4.32 - —
NF mild, precip., dms., 100-lbs., f.o.b works lb. 5.67 - —

Camphene, 46° m.p., dms incl., c.l., works lb. .15 - —
dms. incl., t.c.l. same basis lb. .16½ —
tanks, same basis lb. .12½ —

Camphene chlorinated, 67-69% (see Toxaphene)

Camphor, monobromated, NF, dms., kgs lb. 3.63 3.70

Camphor, syn., tech., 1 bbl. or more. lb. .45 - —
USP, gran., powd., bbls., 1,000-lb. lots lb. .53 - —
bbls smaller lots lb. .54 - —
tablets, ctns., 1,000-lb. lots. lb. .80 - —
ctns., 500-lb. lots lb. .81 - —
ctns., smaller lots lb. .82 - —

Camphor oil, sassafrassy, dms. lb. .35 - .55
White, dms. lb. .26 .50

Cananga oil, native, cns. lb. 5.00 6.50
Rectified, cns. lb. 7.25 - 10.00

Candelilla wax, crude, bgs. lb. .57 - .58
Refd., pure, bgs lb. .62 - .63
Powdered Candelilla wax 20 to 100 mesh. 8c higher.

Cantharides, Chinese, cs. lb. 1.00 - —
powd., bgs. lb. 1.15 - —
Russian bgs. lb. 2.00 2.15
powd. bgs. lb. 2.15 2.30

Capric acid, dms. lb. .27¼ - .29¾
tanks lb. .24¾ —

Caprolatam monomer, bgs., c.l., t.l., f.o.b. works lb. .52 - —
bgs., t.c.l., t.t.l., same basis lb. .57 - —
tanks, same basis lb. .49 - —

Capryl alcohol, 85% dms., c.l., t.l., works lb. .19 - —
dms., t.t.l., same basis lb. .19½ —
tanks, frt. equald lb. .16½ —

Sec. 92-99% dms. c.l., f.o.b. works lb. .22 - —
dms. t.c.l., f.o.b. works lb. .23 - —
tanks, f.o.b. works lb. .19½ —

Caprylic acid, dms. lb. .27¼ - .29¾
tanks lb. .24¾ —

Capsicum (see Pepper red).

Capsicum oil (see Capsicum oleoresin).

Capsicum oleoresin, NF, from dom. pepper, dms. lb. 4.00 - —
NF, from African pepper, dms. lb. 4.50 - —

Caraway oil, NF, dms. lb. 3.75 - —

Caraway seed Danish, bgs. lb. .16 - —
Dutch, bgs. lb. .19 - —

Carbazole, 97%, bbls, ton lots, works lb. 1.05 - —

Carbon black, channel, rubber heads, bulk, c.l., works lb. .08 - —
bgs. c.l., works lb. .08½ —
bgs. t.c.l. works lb. .16¼ —

Carbon black, furnace, fast extruding, bgs., c.l., works lb. .08¾ —
ctns. t.c.l. whse lb. .13½ —

Carbon black high abrasion, bulk, c.l. works lb. .07¼ —
bgs. c.l., works lb. .07¾ —
bgs. t.c.l. dlvd or whse lb. .14½ —

high modulus, bgs., c.l., works, lb. .06¼ —
ctns. t.c.l., whse. lb. .13 —

semi-reinforcing, bgs., c.l., works lb. .05¾ —
bgs. ctns. t.c.l. whse lb. .12½ —

Carbon black, pigment, high color beads, ctns., c.l., works lb. .78 - —
ctns. t.c.l., dlvd or whse lb. .87 - —

medium color uncompressed, bgs., c.l., works lb. .14 - —
bgs. t.c.l. dlvd or whse lb. .22½ —

Carbon dioxide, indust., wholesale, bulk, 30,000-2,999,999 lbs., dlvd Metropolitan areas, E ton 60.00 - 115.00
bulk, 3,000,000 lbs. or more, dlvd Metropolitan areas, E ton 55.00 - —

Solid, bulk, wholesale, works ton 85.00 - —

Carbon disulfide, 55-gal dms., c.l., works, frt. equald to competitive points lb. .071 - —
55-gal. dms., t.c.l., same basis lb. .086 - .091
5-gal dms., 30 dms to c.l., same basis lb. .131 —
5-gal. dms., less than 30 dms., same basis lb. .161 —
tanks, dlvd lb. .0520 —

Carbon tetrachloride CP, consumers dms. c.l. frt alld. lb. .12¾ —
dms. t.c.l. frt alld. lb. .15¼ —

Tech. consumers dms., c.l., t.l., frt. alld lb. .11¾ —
dms. t.c.l. t.t.l. frt. alld lb. .14¼ —
tanks frt alld lb. .10¾ - .11¼

Carboxymethyl cellulose (see CMC).

Carbromal NF dms. 100-lb lots, works lb 4.00 4.25
dms. smaller lots, works lb 4.10 4.75

Cardamom oil, NF, bots lb. 43.00 - 45.00

Cardamom seed, bleached "A" lb. 3.48 - —
Bleached "B" lb. 3.15 - —
Decorticated Alleppey, cs. lb. 2.70 - —
Guatemala, cs. lb. 2.10 - —
Green, Alleppey, bgs. lb. 2.10 - —
Ceylon, bgs. lb. 2.10 - —

Carmine No. 40, NF, bulk, 100-lb. lots or more, dlvd. lb. 16.80 - —
bulk, smaller lots, dlvd. lb. 16.90 - 17.30

Carnauba wax, chalky, bgs., ton lots. lb. .70 Nom.
North Country, No. 2, crude, bgs., ton lots lb. .78 - .80
refd., pure, ton lots lb. .85 - .87
North Country, No. 3, Ceara, crude, ton lots lb. .64 - .65
North Country, No. 3, Parnahyba, crude, ton lots lb. .66 - .67
No. 3, refd., pure, bgs., ton lots. lb. .74 - .76
No. 1, Ceara, yellow, bgs., ton lots. lb. .94 - .96
Parnahyba, yellow, bgs., ton lots. lb. .96 - .98
Powdered carnauba wax, 20 to 100 mesh 8c per lb higher.

Carotene, tech., 1,350,000 A units per gram tins, 5-10 kilo lots, dlvd gram .20½ —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works million units .12 —
USP, microcrystalline in oil, 400,000 A units per gram., dms., dlvd million units .144 —

b-Carotene, in vegetable oil, semi-solid suspension 400,000 A units per gram cns kilo 57.60 - —

b-Carotene, liquid in vegetable oil, 500,000 A units per gram. cns kilo 72.00 - —
Pure, cryst., 1,600,000 to 1,670,000 A units per gram. cns kilo 240.00 —

Carvol, bots. lb. 5.00 5.40

Cascara sagrada bark, bulk lb. .32 —

Casein, dom. edible, acid precip., 30 mesh, bgs., 10,000-lb. lots or more, works lb. .56 - —
edible, acid precip. 80 mesh, bgs. 10,000-lb lots or more, works lb. .64 - —
Imp., inedible, acid-precip., gro., Argentine, bgs., c.l., ex-dock Eastern seaports lb. .16¾ - .17¼
Australian, bgs., c.l., same basis lb. .19¼ - .19¾
New Zealand, same basis lb. .24 - .25

Cashewnut shell, liquid, treated, dms., c.l., Newark, N.J lb. .24 —
dms. ton lots, same basis lb. .25 —
t.w., same basis lb. .22½ —

Cassella acid, dms. frt. alld., 100% basis lb. 1.44 1.75

Cassia oil, redist., USP, cns. lb. 7.50 9.00

Cassia, Padang, "A," bls. lb. .31 —
"B," bls. lb. .30 —
"C," bls. lb. .29 —
Korintje "A," bls. lb. .29 —
"B," bls. lb. .28 —
"C," bls. lb. .27 —

Castor oil, dom., blown, dms., c.l. lb. .2550 —
dms., t.c.l. lb. .2650 —

Castor oil, dom., dehydrated, bodied, dms., c.l lb. .2700 —
dms., t.c.l. lb. .2850 —
tanks lb. .2500 —
dehydrated, unbodied, dms., c.l. lb. .2500 —
dms., t.c.l. lb. .2660 —
tanks lb. .2360 —
hydrogenated, bgs., c.l. lb. .2450 —
bgs., ton lots lb. .2850 —
bgs., t.c.l., dlvd. lb. .3050 —

Castor oil, dom., hydrogenated, No. 1, dms., c.l lb. .2200 —
dms., t.c.l. lb. .2300 —
tanks lb. .2000 —
No. 3, tech., dms., c.l. lb. .2125 —
dms., c.l., lb. .1925 —
tanks lb. .1925 —
Refd. deod., dms., c.l. lb. .2650 —
dms., t.c.l. lb. .2750 —
tanks lb. .2-50 —
USP, dms., c.l. lb. .2250 —
dms., t.c.l lb. .2450 —
tanks lb. .2150 —
Imported, No. 1, Braz., tanks lb. .17½ —
Sulfonated, 50%, dms., works lb. .15 .15¼
75%, dms. works lb. .19 .19¼

Castor oil acids, dehydrated, dms. lb. .41¼ - .43¾
Split, dms. lb. .33¾ - .34¾

Castor pomace, bgs., c.l., works ton 35.00 - —

Castoreum nat., cns. lb. 5.25 - —
Syn., cns. lb. 9.00 - —

Catechol, CP, cryst., fib., dms., works lb. 2.17½ —
Resub., dms., works lb. 4.29½ —

Catnip leaves, Southern, bls lb. Nominal.

Caustic potash (see Potash caustic).

Caustic soda (see Soda, caustic).

Cedarleaf oil, USP XIII cns., dms. lb. 3.25 3.50

Cedarwood oil cns., dms. lb. 1.00 - —

Celery seed, French, bgs. lb. .36 - —
Indian, bgs. lb. .21 - —

Cellulose acetate, flake, powd., bgs., t.l., dlvd E lb. .36 .51

Cellulose acetate butyrate powd., 17% butyryl content, bgs., dlvd E lb. .545 .555
27% butyryl content, bgs. dlvd, E lb. .595 .605
38% butyryl content, bgs. dlvd, E lb. .545 .555
38% butyryl content, half-second, bgs., dlvd E lb. .545 .555
50% butyryl content, bgs. dlvd, E lb. .585 .595

Cellulose gum, methyl (see Methyl Cellulose)

Cellulose gum, pure, high vis., bgs., 23,000-lb lots or more works, frt alld lb. .57 - —
bgs., smaller lots, same basis lb. .59 - —

Cerium hydrate 74% CeO, fib dms., 100-lb. lots or more lb. 1.40 - —
77% CeO, fib dms., 100-lb lots or more lb. 1.74 - —

Cerium oxalate (see Rare earth oxalate)

Cerium oxide, optical grade, bgs., 50-lb lots or more, dlvd. lb. 1.85 1.90
bgs., smaller lots, dlvd. lb. 2.15 —

Cetyl alcohol NF fib cns., c.l., t.l., dlvd E lb. .41½ —
fib cns., t.c.l., same basis lb. .43¼ —
tanks, same basis lb. .39 —

Extra, cns. c.l., t.l., dlvd E lb. .48½ —
fib cns., t.c.l., same basis lb. .50½ —
tanks, same basis lb. .46 —

Chalk (see Calcium carbonate)

Chamomile flowers, Hungarian, lb. 1.00 - 1.25
Roman, cs. lb. 1.50 - 1.75

Chamomile oil, blue Hungarian, bots lb 350.00 —

Charcoal, activated NF, fib dms., c.l., works lb. .34 - .35¼
fib, dms., 5-ton lots, works lb. .35 - .35¼
fib dms. smaller lots, works lb. .36 - .50

Charcoal, black (see Charcoal, activated)

Charcoal, bone (see Bone black).

Charcoal, hardwood, lump, bulk, c.l., f.o.b. plant	ton	55.00	—
briquets, bulk, c.l., f.o.b. plant	ton	80.00	—
5-lb. paper bgs., c.l., same basis	ton	106.00	—
20-lb. paper bgs., c.l., f.o.b. plant	ton	90.00	—
40-lb. paper bgs. c.l., same basis	ton	86.00	—
Chenopodium oil, NF, cns	lb.	4.75	5.00
Chicago acid, paste, bbls., frt. alld.	lb.	3.21	—
Chinawood oil (see Tung oil).			
Chloral, tech., 94% min., dms., c.l., works	lb.	.23	—
dms., l.c.l., works	lb.	.24	—
tanks, multiple units, 5 cars, dms., l.c.l., works	lb.	.21	—
Chloral hydrate, USP, jars, 1,000-lb. lots	lb.	1.00	—
jars, 500-lb. lots	lb.	1.03	—
jars, 100-lb. lots or less	lb.	1.05	—
Chlordan, agricultural, dms., c.l., frt. alld	lb.	.65	—
dms., l.c.l., 5,000-10,000-lb. lots, frt. alld	lb.	.66	—
Chlordan, clarified, dms., c.l., frt, alld	lb.	.69	—
dms., l.c.l., 5,000-10,000-lb. lots, frt. alld	lb.	.70	—
Chlorinated paraffin, 40%., dms., c.l., frt. alld	lb.	.15	—
dms., l.c.l., 10 dms. or more, same basis	lb.	.16	—
70%, dms., c.l., same basis	lb.	.18½	—
dms., l.c.l., 10 dms. or more, same basis	lb.	.19½	—
Chlorinated rubber, 5, 10, 20 cps., ctns., c.l., works	lb.	.60	—
ctns., l.c.l. works	lb.	.61	—
125 cps. ctns., c.l., works	lb.	.70	—
300 cps., ctns., c.l., works	lb.	.80	—
Chlorine, liq., cyls., c.l., works, frt. equald	lb.	.11	—
cyls., l.c.l., Metropolitan area	lb.	.12½	.13¾
tanks, single units, works, frt. equald 100 lbs.		3.25	—
tanks, multiple units, 5 cars, works, frt. equald 100 lbs.		4.15	—
tanks, multiple units, 4 cars, same basis 100 lbs.		4.35	—
tanks, multiple units, 2 cars, same basis 100 lbs.		5.35	5.85
tanks, multiple units, 1 car, same basis⅝ 100 lbs.		6.25	7.25
Chloroacetic acid, mono, flake, 99%, purif., dms., c.l	lb.	.23½	.25½
dms., l.c.l.	lb.	.24½	—
tech., flake, 96-97%, dms., c.l., frt. equald	lb.	.19	—
dms., l.c.l., frt equald	lb.	.20	—
2-Chloro-4-aminotoluene, tech., liq., dms., frt. alld	lb.	1.03	—
4-Chloro-2-aminotoluene, fused, bbls.	lb.	1.38	—
5-Chloro-2-aminotoluene, tech., liq., dms., frt. alld	lb.	.66	—
m-Chloroaniline, dms., c.l., frt. alld.	lb.	.75	—
dms., l.c.l., same basis	lb.	.77	—
tanks, same basis	lb.	.73	—
o-Chloroaniline, dms., c.l., frt. alld.	lb.	.52	—
dms., l.c.l., same basis	lb.	.54	—
tanks, same basis	lb.	.50	—
p-Chloroaniline, dms., c.l., frt. alld.	lb.	.77	—
dms., l.c.l., same basis	lb.	.79	—
o-Chlorobenzaldehyde, dms., t.l., works	lb	1.05	—
dms., l.t.l., same basis	lb.	1.20	—
o-Chlorobenzaldehyde, dms., l.c.l., works	lb.	1.95	—
o-Chlorobenzoic acid, fib. dms., t.l., works	lb.	1.10	—
fib. dms., smaller lots, works	lb	1.25	—
p-Chlorobenzoic acid, fib. dms., 2,000-lbs. or more, works.	lb.	2.25	—
fib. dms., less than 2,000-lbs., same basis	lb.	2.30	—
Chloroform, tech., dms., c.l., dlvd.	£ lb.	.18	—
dms., l.c.l., same basis	lb.	.19	—
tanks, same basis	lb.	.17	—
Chloroform, USP, dms., c.l., dlvd.	lb.	.27	—
dms., l.c.l., dlvd	lb	.30	—
tanks, minimum 4,000 gals. dlvd.	lb.	.25	—
2-Chloro-4-nitroaniline, paste, dlvd. E., 100% basis	lb.	.90	—
Powd., dlvd. E., 100% basis	lb.	1.00	—
4-Chloro-2-nitroaniline, powd., dlvd.	£ lb.	.85	—
4-Chloro-2-nitrophenol, tech., paste, dms. frt. alld	lb.	.75	—
4-Chloro-2-nitrotoluene, tech., solid, dms., frt. alld	lb.	.99	—
6-Chloro-2-nitrotoluene, tech., solid, dms., frt. alld	lb.	.20½	—
o-Chlorophenol, dms., c.l., frt. equald	lb.	.37	—
dms., l.c.l., same basis	lb.	.38	—
p-Chlorophenol, dms., c.l., frt equald	lb.	.37	—
dms., l.c.l., same basis	lb.	.38	—
Chloropicrin, coml., cyls., 180 lbs. frt alld	lb	1.07	—
cyls., 100 lbs., same basis	lb	1.08	—
cyls., 50 lbs., same basis	lb	1.14	—
Chlorosulfonic acid dms., c.l., frt equald	lb	.0465	—
dms., l.c.l. frt equald	lb	.0515	—
tanks frt equald	lb	.0415	—
Chlorosulfonic acid, in stainless steel dms ½c per lb higher			
o-Chlorotoluene tech. dms., t.l., works	lb	.37	—
dms. l.c.l., t.l. same basis	lb	.38	—
Choline bitartrate, 100-lb. dms., frt. equald	lb.	1.25	—
Choline chloride, 100-lb dms., frt. equald	lb.	1.25	—
Choline dihydrogen citrate, 100-lb. dms., frt. equald	lb.	1.25	—
Chrome green USP dark, light medium blue content, 1-15%, bbls. dlvd E of Rockies.	lb	.43	—
blue content 16-30%, bbls., same basis	lb	.44	—
medium blue content, 41-45% bbls. same basis	lb.	.44	—
blue content, 45-49%, bbls., same basis	lb.	.45	—
Chrome green, reduced color 25%, bbls., same basis	lb.	.20	—
Chrome green prices 1c. higher W of Rockies.			

Interested personal service—
always—
when you buy from Eastman

Eastman Alcohols

ethyl alcohol
95% and anhydrous

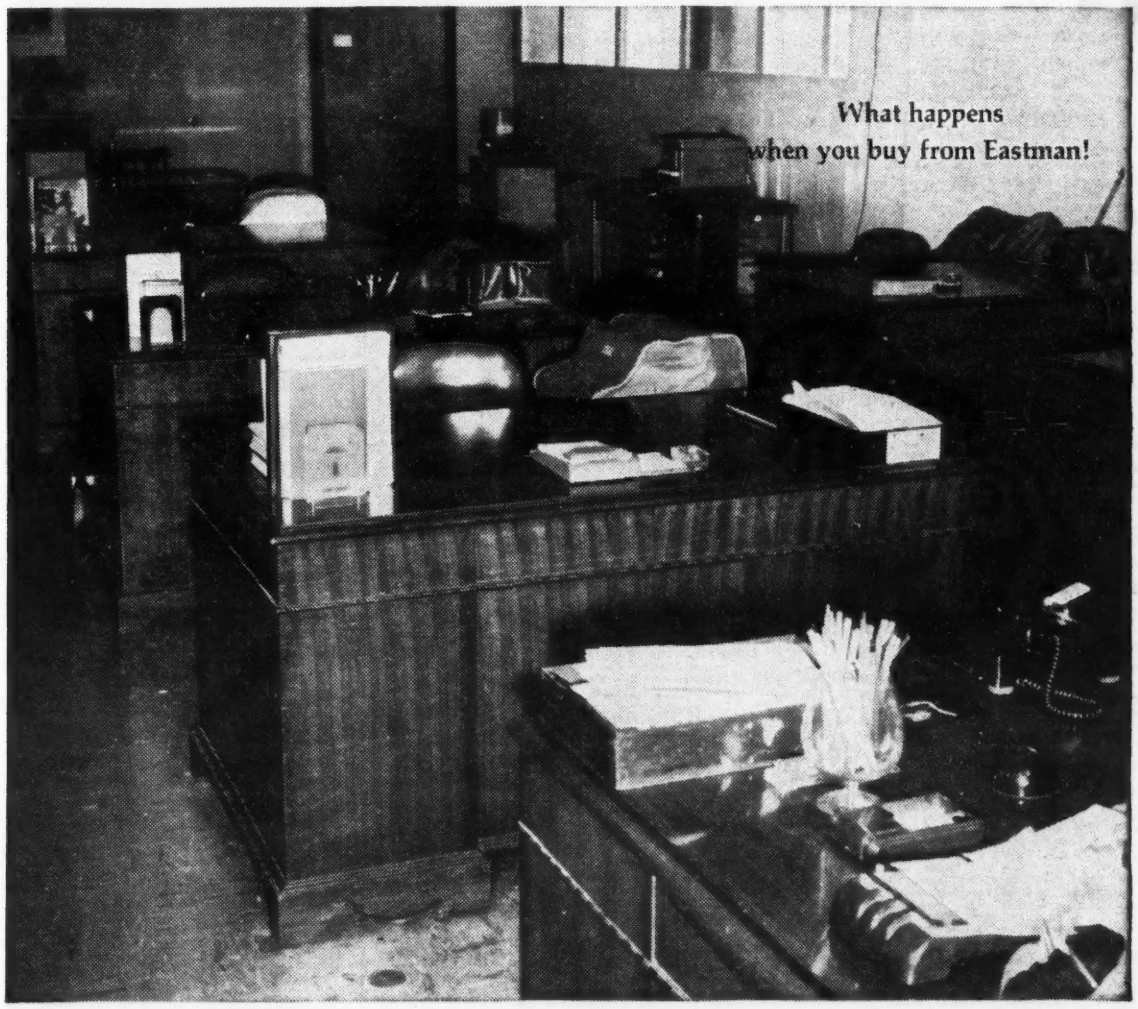
Tecsol®
proprietary
ethyl alcohol
95% and anhydrous

n-butyl alcohol

isobutyl alcohol

2-ethylhexyl alcohol

For properties and shipping information on these and other Eastman products, see **Chemical Materials Catalog, page 363, or Chemical Week Buyers' Guide, page 107.**



"4,500 gallons!...on Labor Day weekend?"

"The customer had reached me at home on the Labor Day weekend with a request for immediate delivery of 4,500 gallons of 2-ethylhexyl alcohol," said one of our New England representatives.

"I almost knew before asking that he was not going to define *immediate* as Tuesday or Wednesday. And he didn't disappoint me.

"'If a truck drove in right now, it would be an hour late,' he said. Then he went on about a very special and unexpected plasticizer order and how he was 'way short on the necessary 2-ethylhexyl alcohol and normally his raw material inventories were adequate and if he could get delivery right away he might be able to keep his process running, etc. So I promised to see what I could do.

"Luckily, I was able to catch our warehouse manager at home and after checking around he seemed to think he could get up a loading crew. I called the customer back to ease his mind a little...that just as soon as we could locate an available tank truck we'd be in business. That's when he told me about his faith in our service—he had already made arrangements for the tank truck.

"Within two hours we loaded and delivered. The customer confided later in the week that it was on time after all, and enabled him to meet his scheduled delivery date."

Generally, we handle orders on a more scheduled, normal-business-hours, few-days'-notice basis. But if ever you feel the need to arrange for your own tank truck, then call us to fill it up—we'll do all we can to meet your requirements, even on Labor Day weekend.

Eastman CHEMICAL PRODUCTS, INC., KINGSPORT, TENNESSEE, Subsidiary of Eastman Kodak Company

SALES OFFICES: Eastman Chemical Products, Inc., Kingsport, Tennessee; Atlanta; Boston; Buffalo; Chicago; Cincinnati; Cleveland; Detroit; Greensboro, North Carolina; Houston; Kansas City, Missouri; New York City; Philadelphia; St. Louis.
West Coast: Wilson & Geo. Meyer & Company, San Francisco; Los Angeles; Portland; Salt Lake City; Seattle.

Chrome orange CP bbls., dlvd E of Rockies lb. .33 - —
Chrome orange prices 1c higher W of Rockies
Chrome yellow CP bbls. dlvd E of Rockies lb. .35 - —
Chrome yellow price 1c higher W of Rockies
Chromic acid 99¾%, dms., c.l., works, frt. equald lb. .29½- —
dms. t.c.l. dlvd N Y Metropolitan area lb .30 .31
Chromic acid NF (see Chromium trioxide)
Chromium acetate, soln., 7½%, dms., 500 2,000-lb lots works lb .10 —
Chromium fluoride bbls. works lb .51 .52
Chromium oxide hydrated, bbls., fib dms. c.l. frt. alld. lb 1.20
Pure bgs c.l. frt alld lb 44½ —
bgs t.c.l. same basis lb 45¼ —
Chromium trioxide NF bots lb 1.15 —
Cinchona bark NF red broken, bgs lb .25 —
NF yellow broken bgs lb .35 .40
Cinnamic acid refd. bots lb 2.50 3.50
Cinnamic alcohol bots lb 1.50 1.60
Cinnamic aldehyde dms lb .80 1.00
Cinnamon Ceylon No 2, bgs lb .53 —
Ceylon No "0000," bgs lb .73 —
Cinnamon bark oil, bots lb.42.00 -48.00
Cinnamon leaf oil crude, dms lb 1.60 2.00
USP (cassia), cns, dms lb 6.50 13.50
Citral, CP bots lb. 4..0 - 5.00
Extra bots
Syn., dms lb 3.60 5.00
Citric acid USP anhyd., fine gran., bgs, dms, c.l lb. 7.25 7.40
bgs. dms 10,000-lb lots, 1 shipt lb. 29½ 30
bgs dms smaller lots lb .30 .30½
Citric acid USP hydrous, fine gran., bgs., dms., c.l lb. 30½ 31
bgs dms 10,000-lb lots, 1 shipt lb .27½ 28
Powdered citric acid ½c per lb higher bgs dms smaller lots lb 28 28½
Citronella oil, Ceylon, dms lb 29 29¼
Java-type, cms lb 1.00 —
Citronellal, bots., dms. lb 1.20 - 1.35
Citronellol, nots, cms lb 1.40 1.60
Citronellol synthetic, dms lb 1.90 2.50
Civet artif nots lb 1.70 —
Nat bots lb 13.75 15.00
Clay ball dom. airfloated, bgs., oz 8.50 15.00
c.l. Tenn ton.17.50 21.50
crushed shed moisture bulk, c.l., Tenn ton 8.00 11.25
imp airfloated bgs. c.l. Atl port net-ton.43.00 47.00
lump bulk, Atl port net-ton.31.50 37.50
Clay China dom. dry-grd. airfloated, 99%, 325 mesh, Georgia bgs., c.l., works ton.11.00 17.00
Georgia bgs. t.c.l. works ton.13.50 22.50
imp white, lump, bulk, c.l. ex-dock Philadelphia, Port land, Me long-ton.23.00 35.00
white powd. bgs. c.l. ex dock net-ton.50.00 —
bgs. t.c.l. ex whse net-ton.60.00 70.00
Cleaners naphtha, petroleum 105 F Flash tankcars New Jersey and New York gal. 18 —
Group 3 gal. 12¾75 —
Houston, Texas gal. 145 —
140 F Flash, tankcars, New Jersey or New York gal. .205 —
Group 3 gal. 154 —
Houston Texas gal. 17 —
Cleve's acid tech mixed, solid, dms. frt alld lb 1.05 —
1.8 tech. solid dms frt alld lb 77 —
1.7 tech dms frt alld lb 2.20 —
Clove bud oil, USP, dms. lb. 2.65 - —
Cloves, Madagascar, bgs lb. - - —
Zanzibar, bgs. lb. .37 - —
Clove leaf oil, crude, dms lb. 1.10 - —
CMC crude, 96.4% low or medium vis bgs., 23,000 lbs., dvld, E, 100% basis lb .40 - —
96.4% low, or medium vis., bgs., less than 2,000 lbs., dvld, E., 100% basis lb. .42 .50
85% low or medium vis. bgs., c.l., dlvd E 100% basis lb. .40 —
t.c.l., dlvd E., 100% basis lb. .42 1.00
purif. high vis (see Cellulose Gum)
CMC, standard low or medium vis., bgs. 23,000 lbs works, frt alld lb .57 —
bgs smaller lots, same basis, lb .59 1.00
CMC prices W of the Rockies are 2c per lb lower and are on a works basis.
Coaltar crude resale tor soln., tanks, works gal. 17 —
Refd. resale indust. dms. c.l., ex whse gal. 35 —
dms. t.c.l. ex whse gal 39 —
tanks works gal 20¼ —
Coaltar pitch, aluminum, bulk, Works ton.42.00 - —
Carbon, bulk works ton.42.00 - —
Indust., bulk, works ton.44.00 - —
Coke, bulk works ton 40.50 —
Fiber bulk works ton 48.00 —
Roofing 140-155 F, Federal Specification SS-P-ton Type I tanks, works ton.41.00 —
Cobalt acetate 25% Co. dms. dlvd lb 1.04 —
Cobalt blue, genuine, 250 lb bbls dlvd E of Rockies lb 4.90 —
Cobalt blue prices 1c higher W of Rockies
Cobalt blue imitation (see Ultramarine blue)
Cobalt carbonate 46% Co. powd., bgs. dlvd lb 1.45 —
Cobalt chloride 24.2% Co. dms. dlvd lb .93 —
Cobalt hydrate 60-61% Co., dms., dlvd lb. 1.97 - —
Cobalt linoleate fused 8½% Co., dms lb. 71½ —
Liq. 6% Co dms lb. 57½ —
Cobalt metal 98% dms. f.o.b carrier lb 1.50 —
Cobalt naphthenate liq 6% Co. dms dlvd lb 48¾ —
Cobalt nitrate 20.1% Co bbls dlvd lb .75 - —
Cobalt oxide black ceramic grade, 72½ 73½% Co., kgs., dlvd E of Mississippi R lb 1.15 —
70-71% Co kgs same basis lb 1.19 —
Cobalt oxide prices W of Mississippi R 3c per pound higher
Cobalt phosphate powd., 32.1% Co., dms dlvd lb 1.35 —
Cobalt resinate fused 3% Co. dms lb. .38½- —
Cobalt sulfate cryst., 21% Co., dms., dlvd lb .84 —
Monohydrated 33% Co. dms. dlvd lb 1.09 —
Cobalt tallate, 6% Co., dms., dlvd. lb. .44 - —
Cocaine, USP cns., 100-oz lots, f.o.b works oz.17.50 - —
Cocaine hydrochloride, cns 100-oz lots f.o.b. works oz.13.75 - —
Cocillana bark bls lb .18 .20
Cocoa butter, bgs lb. .55 .60
Coconut oil, crude, tanks, New York, Pac. coast lb. .13½- —
Refd., deodorized, dms. lb. .12½- —
Coconut oil acids, dist., dms tanks lb. .21½- .24
double dist. (stripped), dms. tanks lb. .22½- .25
Cod oil, dms, spot lb 08¾- .08½
Codeine NF cns, 100-oz lots oz.13.25 —
Codeine hydrochloride cns., 100-oz. lots oz.11.75 - —
Codeine phosphate USP cns, 100-oz lots oz.10.25 - —
Codeine sulfate USP cns 100-oz lots oz.10.75 —
Codliver oil USP dms gal 1.40 1.70
Cohosh root, black bls lb 20 25
Blue bls lb 20 25
Colchicine, USP, bots. 27.50 -29.00
Colchicum cont bls lb .35 .45
Colchicum seed, bgs. lb. .85 .90
Collodion, USP, dms. lb. .32½- —
USP flexible dms lb .34 —
Colocynth pulp bls lb .25 —
Colombo root bls lb 16 .18
Condurango bark bls lb 18 20
Congo copal gum No 1, bgs lb .26 .27
No 2, bgs lb 23 25
No 3, bgs lb .21 .24
Copaiba balsam, cns., dms. lb. .80 - .90
Copaiba oil cns lb 1.35 2.00
Copper acetate bbls c.l., works bbls, t.c.l. works lb 53 —
Copper carbonate, 55%, dark dense, works lb.34.35 - —
bgs., t.c.l., works lb.35.85 - —
Copper chloride, cupric, anhyd., dms., works lb. .43½- .44
cryst., dihydrate, dms., works lb. .29¾ .30¼
cryst., dried, dms., works lb. .37¾- .38½
Copper chloride, cuprous, dms., works lb. .3855- .4155
Copper cyanide, tech., dms 20,000-lb lots or more lb. .609 —
dms. 1,000 lb lots or more lb. 619 —
dms smaller lots lb 639 .65
Copper gluconate dms lb 3.20 —
Copper hydrate dry dms. c.l., frt. E of Miss lb. .52½- —
dms., t.c.l., same basis lb. .53 - —
Copper metal electrolytic dlvd. Valley basis lb. .29 - —
Copper naphthenate liq. 8% Cu, dms frt alld lb .26½ —
Copper nitrate tech cryst. dms., works lb .30¾ .32¾
Copper oleate solid 9% Cu dms., works lb 45 —
Copper oxide black bbls. 100-5,000-lb. lots, works lb. .46 - —
Copper oxide, red 97% USN Type I bbls 100-5,000-lb lots, lb. .46½- —
90% USN Type II, bbls. 100-5,000-lb lots or more, works lb. .45½- —
Copper quinolinolate 18% Cu. dms., ton lots lb 4.25 —
10% active quinolinolate dms lb 1.14 1.15
Copper resinate precip dms frt alld lb. .47 - —
Copper sulfate, CP, gran., cms., works lb. .1885- —
Cryst., 99%, bgs., c.l., works, 100 lbs.12.00 - —
bgs., t.c.l., works 100 lbs.12.50 -15.00
Copper sulfate, monohydrated, 95% dms., c.l., works 100 lbs.22.65 - —
dms., t.c.l., works 100 lbs.23.40 - —
Tribasic, distributors bgs., works 100 lbs.29.10 - —
bgs., t.c.l., works 100 lbs.30.60 - —
Copper undecylenate dms lb 2.25 - —
Copra, Atl., Gulf ports, c.i.f. ton.169.00 - —
Pac. ports, c.i.f. ton.164.00 - —
Coriander oil, USP, bots. lb. 6.50 7.25
Coriander seed, Moroccan, bgs lb. .18 - —
Rumanian, bgs. lb. .14 - —
Vugoslavian bgs lb 08½ —
Corn oil, crude, tanks, works lb. .15¾- —
crude tanks, New York lb. .05½ Nom.
Refd., salad, dms. lb. .2160- .2185
tanks lb. .1950- —
Corn acids, dist., dms lb. .18 —
tanks lb. .13 - —
Corn sugar, tanners chipped, paper bgs. c.l. 60,000 lbs min 100 lbs 7.30 —
paper bgs. t.c.l. 100 lbs 7.45 - —
Corn syrup, 43° Be., tanks, dlvd. N Y 100 lbs. 6.30 - —
non-ret dms. c.l. same basis, 100 lbs. 7.23 —
Corrosive sublimate (see Mercuric chloride)
Cortisone acetate USP bots. kilo or more gram. .95 1.75
Costus oil bots oz 6.00 —
Cottonseed meal 41% bgs Memphis ton.54.00 -54.50
Cottonseed oil crude, tanks, South, East lb. .12½- .12¾
tanks, Valley lb. .12⅜- —
tanks, Texas, Lubbock lb. .12½- —
tanks, Texas, Waco lb. .12⅝- —
Fo[illegible] acid 95%, tanks, Texas, Waco lb. .03½- —
Refd., salad, dms. lb. .18⅜- .18½
tanks, salad, dms. lb. .16⅜- —
Cotton seed oil acids, dist., dms tanks lb. .18 —
Coumarin NF cryst. dms lb 3.30 3.40
Cramp bark NF bls lb 90 1.00
Cream of tartar (see Potassium bitartrate)
Creosote carbonate NF bots. chys., lb 3.05 3.26
Creosote, coaltar, crude, tanks, works frt adjusted gal. .24 —
Crude, soln 80% tanks, works, Refd., dms., c.l., works gal. 226 —
dms., t.c.l. same basis gal 62 - —
tanks, same basis gal .38 - —
West Coast creosote prices computed on a basis of 24c per gallon for straight oil and 20c per gallon for coaltar
Creosote, beechwood, chys., dms., f.o.b works, dlvd in Metropolitan area lb 1.72 1.77
Hardwood NF chys. dms same basis lb 1.42 1.47
Pinewood dms. incl. c.l., works, dms. incl., t.c.l., works lb. .0611- —
dms. incl., t.c.l. ex whse, New York lb. .0684- —
tanks, works lb. .0795- —
Creosote oil (see Creosote coaltar)
Cresol, tech. 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., frt. alld lb. .0511- —
non-ret dms., t.c.l., same basis lb. .16½- —
tanks, same basis lb. .17½ —
lb. .145 —
Cresol, USP, 50% 204°C., dry above 207°C., wide distillation range, non-ret dms., c.l., same basis lb. .18 - —
non-ret. dms., t.c.l. same basis, lb. .19 - —
tanks, same basis lb. .16 - —
m-Cresol, 95-98% dms. c.l., works, lb. .60 - —
dms., t.c.l., works lb. .61 - —
m-p-Cresol, 5-95% 3°C. dms., c.l., frt equald lb. .18 - —
dms., t.c.l., same basis lb. .19 - —
tanks, same basis lb. .16 - —
2.97% 2°C. dms c.l. frt equald. lb. .22 - —
dms., t.c.l. same basis lb. .23 - —
tanks same basis lb. .20 - —
o-Cresol 30.5°C m.p and over, ret., dms c.l. frt equald lb. .17 - —
ret dms., t.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
30° 30.49 C m.p. dms. c.l., frt. equald lb. .16½- —
ret. dms., t.c.l., same basis lb. .17½- —
tanks same basis lb. .14½- —
Cresol, 29°-29.9°C m.p., dms., c.l., equald lb. .16 - —
ret dms., t.c.l., same basis lb. .17 - —
tanks, same basis lb. .14 - —
25°-28°C m.p. dms c.l., frt. equald lb. .15 - —
ret dms. t.c.l. same basis lb. .16 - —
tanks. same basis lb. .13 - —
p-Cresol 98% dms. c.l., dlvd lb. .52 - —
dms., t.c.l., dlvd lb. .53 - —
tanks, dlvd lb. .49 - —
2,3-Cresotic acid dms. ton lots, works lb. 70 —
dms. smaller lots works lb. .72 —
p-Cresyl methyl ether cns lb. 1.80 2.05
Cresylic acid, coaltar, dom., meta-para content above 25%, resins and tricresyl phosphate grades dms., c.l., t.l. frt equald gal. 1.35 - —
dms., t.c.l. same basis gal. 1.40 - —
tanks, same basis gal 1.15 - —
metapara content 25% or less, dms. c.l. t.l same basis gal. 1.20 - —
dms., t.c.l. same basis gal 1.25 - —
tanks, frt equald gal. 1.00 - —
Cresylic acid, coaltar, imp., meta-para content 25% or less, f.o.b works, trt, equald to competitive points 50 dms or more, gal. 1.03½- —
less than 50 dms. same basis gal. 1.05 1.15
tanks, same basis gal 1.00 —
Crotonaldehyde 91-93% dms., t.c.l. works lb. .25 - —
Crotonic acid dms. 200 lbs. or more, t.c.l. dlvd lb. .38 - —
Cryolite, nat. indust bgs., c.l., works 100 lbs.13.00 - —
bgs., t.c.l. works 100 lbs.14.25 - —
Cube root, powd. 5% rotenone, bgs., t.l., works lb. 21 - —
lb 22 - —
Cubeb berries, NF, bgs. lb. 1.30 - —
Powd., cs. lb. 1.45 - —
Cubeb oil, cns lb. 8.75 - 9.00
Cumene, dms. c.l., works lb. .12 - —
dms., t.c.l., works lb. .14 - —
tanks, works lb .11 - —
Cumin seed, iranian, bgs. lb. .9 - —
Moroccan, bgs. lb. .36 - —
Turkish, bg. lb. .8 - —
Cumin seed oil bots, cns lb.15.50 -17.00
Cyanamide, fertilizer, mixing Grade, 21% N, gran., bgs., Niagara Falls, Ont contract
Fertilizer, pulv. 21% N, bgs., works unit-ton 2.85 - —
Cyanamide, fertilizer, indust grade bgs, c.l., works ton 75.00 - —
bgs., t.c.l., works ton 96.00 - —
Indust grade 6-16 mesh, dms. c.l., works ton.120.00 - —
dms. t.c.l. works ton 140.00 - —
Cyclohexane, 99% tech, dms., c.l., dlvd E of Rockies gal 1.02 - —
dms. t.c.l. same basis gal. 1.10 - —
dms. c.l. dlvd W of Rockies gal. 77 - —
dms., t.c.l., same basis gal. 85 - —
tanks, works gal. 55 - —
98% tech 40-dm lots or more, f.o.b works gal. 56 - —
5-39 dms. same basis gal. 60 - —
tanks, same basis gal. 36 - —
Cyclohexanol tech. dms. c.l., works, frt alld E lb. .28½- —
dms. t.c.l. works, same basis, lb. .29½- —
tanks, works, same basis lb. 26 —
Cyclohexanone tech dms., c.l., works lb. .33½- —
dms., t.c.l., works lb. .34½- —
tanks, works lb. 31 —
Cyclohexylamine, tech., dms., c.l., works lb. .49 - —
dms., t.c.l., works lb. .50 - —
tanks, works lb. 47 - —
Cypress oil bots. lb. 5.30 - —

D

2,4-D tech. bgs. dms. c.l., works, frt equald lb. .40 - —
bgs. dms. t.c.l. same basis lb. .45 .49
2,4-D butyl ester dms c.l. works, lb. .43 —
dms., t.c.l., same basis lb. .48 - .52
tanks, same basis lb. .42 —
2,4-D isopropyl ester, dms., c.l., works lb. .43 - —
dms., t.c.l., works lb. .48 - .52
tanks, works lb. .42 —
Dammar gum Batavia A E cs lb. No stocks.
East India Batu, bold bgs lb. .15½ .18
nubs and chips, bgs lb. .10 - .11
black, bold, bgs lb. .16 - .18
nubs and chips, bgs lb. .13 - .14½
unscraped bgs. lb. .13 - .14½
pale, chips, bgs lb. .16 - .18
pale nubs, bgs lb. .20¾- .24
Siam cs lb. .31½- .34
Singapore, No. 1, bgs. lb. .38 - .44
No 2, bgs lb. .29 .32
dust, bgs. lb. .18 .20
No 3, bgs. lb. No stocks.
Dandelion root, bls lb. .35 .40
DDD, tech. flake grd., fib dms., c.l., works lb. .45 - .47
fib dms. t.c.l. works lb. .46 - .48
DDT, flake or lump, bgs. c.l., dlvd lb. .23 - —
bgs. smaller lots, same basis, lb. .25 - —
fib dms. c.l., same basis lb. .24 - —
fib dms., smaller lots, same basis lb. 26 - —
Powdered DDT 1c per pound higher.
DDVP (see Dimethyl dichlorovinyl phosphate)
1-Decanol, tech. dms., c.l., dlvd. E, dms., t.c.l., dlvd. E lb. .43½- —
tanks, dlvd E lb. .45½- —
Decyl alcohol, mixed isomers, dms., c.l., dlvd lb. .23½- —
dms., t.c.l., dlvd. lb. .25 - —
tanks, dlvd. lb. .21 - —
Perfume grade, bots. lb 1.00 - 2.00
Decyl alcohol, normal (see 1-Decanol)
Deertongue leaves, bls. lb. .50 - .60
Defluorinated phosphate, feed grade, 14% P paper bgs., c.l., t.l., Tupelo, Miss ton.52.00 - —
18% P, paper bgs., c.l., Texas City ton.61.25 - —
paper bags, c.l., works, Miss ton.66.00 - —
18% P paper bgs., c.l., t.l., works, Houston, Tex ton.66.35 - —
Prices of defluorinated phosphate in bulk $3 per ton less than bg. c.l. prices
Degras common (15-17% free fatty acid), 400-lb dms lb. .12 - .14
Neutral (over 2% free fatty acid), 400-lb dms lb. 13 - —
Denatured alcohol, ethyl, CD-12, CD-13, CD-14, CD-17, dms., c.l. dlvd E of Rockies, dms., t.c.l. same basis gal. .69¼- —
tanks dlvd same basis gal. 74½ .80½
Tankcar sales require written authorization by Alcohol and Tobacco Tax Division.
Denatured alcohol ethyl, proprietary solvent, dms., c.l., dlvd E of Rockies gal. 72 —
dms., t.c.l. same basis gal. 77 .83
tanks, same basis gal 56 —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Division.
Denatured alcohol, ethyl, SD1 dms., dlvd E of Rockies gal. 70½ —
dms. t.c.l same basis gal. 75½ .81½
Denatured alcohol, ethyl, SD1, tanks, same basis gal. .54½- —
SD2B, dms c.l dlvd E of Rockies gal. .69 —
dms., t.c.l., same basis gal. 74 .80
tanks, same basis gal. .53 —
SD3A dms. c.l. dlvd E of Rockies gal. .68 —
dms. t.c.l same basis gal. 73 .79
tanks, same basis gal. .52 —
Denatured alcohol ethyl, SD23A, dms c.l dlvd E of Rockies gal. 70½ —
dms. t.c.l. same basis gal. .75½ .81½
tanks same basis gal. .54½- —
Denatured alcohol, ethyl, SD23H, dms., c.l., dlvd E of Rockies gal. .71 - —
dms., t.c.l. same basis gal. .76 - .82
tanks, same basis gal. .55 —
Denatured alcohol SD29 dms., c.l., dlvd E of Rockies gal. .69½- —
dms t.c.l same basis gal. .74½- .80½
tanks, same basis gal. .53½- —
SD38 dms. c.l dlvd E of Rockies gal. .68 —
dms., t.c.l., same basis gal. .73 - .79
tanks, same basis gal. .52 -
Denatured alcohol, ethyl, SD-35A, dms. c.l. dlvd E of Rockies gal. .71 - —
dms. t.c.l., same basis gal. .76 - .82
tanks, same basis gal. .55 —
Denatured alcohol, ethyl, SD-40, dms., dlvd. E. of Rockies gal. .70½- —
dms. t.c.l., same basis gal. .75½- .81½
tanks, same basis gal. .54½- —
For anhyd. alcohol on above formulas prices are 7c per gal higher
West coast dlvd prices are the same as eastern prices, except in Idaho, Montana, Oregon, and Washington where a 5c. differential on tankcars is maintained.
d-Desoxyephedrine hydrochloride, dms lb..15.00 -17.00
dl-Desoxyephedrine hydrochloride, dms lb 6.50 - —
Dextrin corn, gum, paper bgs., c.l., 100 lbs. 9.39 - —
paper bgs., t.c.l. 100 lbs. 9.54 - —
canary dark, paper bgs. c.l. 100 lbs. 9.23 - —
paper bgs., t.c.l. 100 lbs. 9.38 - —
Indust grade 6-16 mesh, canary light, paper bgs., c.l. 100 lbs. 9.13 - —
paper bgs., t.c.l. 100 lbs. 9.28 - —
White paper bgs., c.l. 100 lbs. 8.97 - —
paper bgs., t.c.l. 100 lbs. 9.12 - —
Corn dextrin in cotton bgs 15c. per 100 lbs higher
Dextrose anhyd., comi. bgs., c.l. 100 lbs. 8.65 - —
bgs. t.c.l 100 lbs 8.80 - —
Anhyd., special, aluminum foil lined fib. dms., 200-lb 100 lbs.14.70 - —
100-lb. dms. 100 lbs.15.20 - —
Hydrated, comi., bgs. c.l., ex whse 100 lbs. 7.45 - —
bgs. c.l., ex whse 100 lbs. 7.60 - —
USP dms lb. .19¾- —
Diacetone alcohol, acetone-free, dms., c.l., dlvd lb. .15½- —
dms., t.c.l., dlvd. lb. .17 - —
tanks, dlvd lb. .13 - —
Tech. dms. c.l. dlvd. lb. .15 - —
dms. t.c.l. dlvd. lb. .16½- —
tanks, dlvd lb. .12½- —
Diacetyl, flavor grade, bots lb. 3.30 - 4.30
Di-sec-amyl phenol, dms., c.l., works lb. .33 - —
dms., t.c.l., works lb. .33 - —
tanks, works lb. .29½- —
Di-tert-amyl phenol, dms., c.l., works lb. .32 - —
dms. t.c.l., works lb. .33 - —
tanks, works lb. .29½- —
Diallylamine, dms., c.l., dlvd. lb. .98½- —
dms. t.c.l., dlvd. lb. 1.00 - —
tanks, dlvd lb. .96 - —
o-Dianisidine, dry, tech., fib. dms. lb. 2.00 - —
Dibenzyl sebacate, dms., c.l., works, dms. t.c.l., same basis lb. .93 - —
tanks same basis lb. .94 - —
Dibromobenzene, bgs., 500-lb. lots, lb. .55 - —
2,6-Di-tert-butyl-p-cresol, teed grade, c.l., t.l., dms., dlvd lb. .65 - —
t.t.l., dms., same basis lb. .68 - —
Food grade, c.l. t.l., dms., dlvd, dms. t.t.l., same basis lb. .65 - —
Tech., dms., c.l. t.l., dlvd. lb. .68 - 1.10
dms., t.c.l., same basis lb. .57 - —
tanks, same basis lb. .60 - —
Dibutyl fumarate, dms., c.l., t.l., dlvd E lb. .54 - —
dms., t.c.l., t.t.l., dlvd. E lb. .31¼- —
tanks, dlvd E lb. .33 - —
Dibutyl maleate, dms., c.l., t.l., dlvd. E lb. .29 - —
dms., t.c.l., t.t.l., dlvd. E lb. .31½- —
tanks, dlvd E lb. .33 - —
Dibutyl phthalate, dms., c.l., dlvd. E lb. .39 - —
dms., t.c.l., same basis lb. .31½- —
tankcars, tanktrucks, 2,000 gals., same basis lb. .33 - —
tanktrucks, 1,000-1,999 gals., same basis lb. .29 - —
Dibutyl sebacate, dms., c.l., works, dms., t.c.l., works lb. .29 - —
tanks, works lb. .67½- —
Dibutyl tartrate, dms., works, frt. alld lb. .68½- —
dms., t.c.l., works lb. .65½- —
Dibutylamine, dms., c.l., dlvd lb. .65¼- —
dms. t.c.l., same basis lb. .55½- —
tanks, same basis lb. .57 —
Dicapryl phthalate, dms., c.l., dlvd lb. .53 —
dms., t.c.l., dlvd. lb. .28½- —
tanks, dlvd. lb. .30 - —
lb. .36 - —

NOW READILY AVAILABLE IN QUANTITY

CELLASE™ 1000

Wallerstein's Cellulose-Degrading Enzyme

Cellase 1000 is a potent purified enzyme preparation of uniform cellulolytic activity now available to manufacturers of pharmaceuticals and food supplements. Standardized at 1000 WCU (**W**allerstein **C**ellulase **U**nits), Cellase 1000 offers the possibility of control of a long neglected phase of human nutrition: **the digestion of vegetable matter high in fiber and roughage.**

A Fungal Enzyme of a New Type

Cellase 1000 is derived from a specially grown strain of *Aspergillus niger.* Chemically it is a highly purified enzyme capable of depolymerizing cellulosic polysaccharides of high molecular weight into fragments of low molecular weight. The exact constitution and nutritional utility of the hydrolysis products depend on many factors, including the type and state of the cellulose initially acted upon.

Some Interesting Uses of Cellase 1000

Aside from the management of geriatric disorders in a progressively aging population, Cellase 1000 can find uses in the correction of dyspepsia, flatulence, certain nutritional insufficiencies, and other GI disturbances of highly contemporary importance. Because Cellase 1000 facilitates the digestion of cabbage, cucumbers, and other "difficult" vegetables, its use for people who have trouble with these foods will allow greater cellulose bulk intake and a concomitant decrease in calorific starches. The implications for the regulation of obesity are plain.

A Pharmaceutically Elegant Enzyme

The whitish color and minimal odor of Cellase 1000 insure its palatability and acceptability in your products, while its high potency and low bulk allow you to formulate smaller and more attractive capsules and tablets than have heretofore been possible. Cellase 1000 is eminently suitable for combination with Mylase® 100 and Prolase® 300, Wallerstein's purified amylase and protease. Further, Cellase 1000 is compatible with most active ingredients. adjuvants and vehicles normally employed in digestive aids and nutritional supplements.

Get in touch with Gerry Gray for samples and your copy of Data Sheet 630 on Cellase 1000.

WALLERSTEIN COMPANY *Division of Baxter Laboratories, Inc.*
Staten Island 3, New York Gibraltar 2-6400
Wallerstein Manufactures Enzymes, Antibiotics and Chemicals for Industry

Dicapryl sebacate, dms., c.l., works, dms., t.c.l., works lb. .63 — ; tanks, works lb. .63½- .64
2,5-Dichloroaniline, dms., works lb. .61 —
3,4-Dichloroaniline, tech., solid, tanks, frt alld lb. .73 —
o-Dichlorobenzene dms., c.l., frt. alld, E lb. .12¾- —
dms., t.c.l., same basis lb. .13¾- —
tanks, same basis lb. .11 —
p-Dichlorobenzene, dms., c.l., f.o.b., works, frt alld E lb. .12 —
dms, 2,000 lbs or more same basis lb. .14½- —
1,4-Dichlorobutane, dms., c.l., or t.l., works lb. .33½- —
dms., t.c.l., or t.t.l., works lb .34 —
tanks, works lb 32 —
Dichlorodiphenyltrichloroethane (see DDT).
2,2-Dichloroethyl ether, dms., c.l., t.l., dlvd E lb 15½- —
dms., t.c.l., t.t.l., same basis lb .17 . —
tanks same basis lb 13 . —
Dichloroisocyanuric acid dms., c.l., t.l. frt equald lb .65 . —
dms, t.c.l., same basis lb 75 . —
Dichloropentanes dist. dms., c.l., works lb 05 . —
dms., t.c.l., works lb 06 . —
tanks works lb 03 . —
Dichlorophenoxyacetic acid (see 2,4-D).
Dicyclohexylamine dms. c.l. works lb .54 . —
dms, t.c.l. works lb .55 . —
tanks works lb .59 . —
Dicyclohexyl phthalate, gran, flb. dms c.l. works frt alld lb. .47½- —
flb. dms., t.c.l., same basis lb. .49 —
Dicyclopentadiene dms. c.l., t.o.b. works lb 14½ —
dms., t.c.l. same basis lb 14¾- —
tanks same basis lb .12 —
Didecyl phthalate dms. c.l. works, dms, t.c.l., same basis lb. .28½- —
tankcars tanktrucks 2,000 gals lb. .30 —
tanktrucks 1,000-1,999 gals, same basis lb .26½- —
Dieldrin dms, c.l. dlvd, dms, t.c.l dlvd lb 1.85 —
Diethanolamine dms. c.l., dlvd E, dms, t.c.l. same basis lb 27 —
tanks same basis lb .28½- —
Diethanolamine lauryl sulfate, dms., c.l. frt alld lb 27½ —
dms, t.t.l. frt alld lb .28½ —
tanks frt alld lb 26½ —
Diethyl barbituric acid (see Barbital)
Diethyl carbonate dms c.l. t.o.b works, dms, t.c.l. same basis lb 47½ —
tanks, same basis lb 48½ —
Diethyl ethanolamines, dms, c.l., dlvd lb 69½- —
dms, t.c.l. dlvd lb 71 —
tanks, dlvd lb 67 —
Diethyl oxalate dms, c.l. t.o.b works lb. 42½ —
dms, t.c.l same basis lb 43½ —
tanks same basis lb 40 —
Diethyl phthalate dms, c.l. dlvd, dms., t.c.l., dlvd. lb. .29¾- —
tanktrucks 1,000-1,999 gals same basis lb. .31¼- —
tankcars tanktrucks 2,000 gals, same basis lb. .27¾- —
Diethyl sebacate, dms., c.l., works, dms., t.c.l., same basis lb. .21 . —
tanks, frt, alld, E lb. .22½- —
Diethyl thiourea dms. c.l., t.l., works, dms, t.c.l same basis lb 58 —
Diethyl toluamide 90-95% meta isomer dms c.l t.l. works, 5-44 dm lots works lb 2.30 . —
1-4 dm lots works lb 2.35 . —
N,N-Diethyl-m-toluidine tech., tks., tanks, frt alld lb 2.40 —
Diethylamine dms c.l. dlvd E lb 83 —
dms, t.c.l. same basis lb 52 —
tanks same basis lb 53½ —
N,N-Diethylaniline dms, c.l., frt, dms, t.c.l., same basis, alld lb 49½ —
tanks same basis lb 57 —
Diethylbenzene, 380 lb dms., c.l., t.l., frt alld., Zone 1 lb 58 —
f.o.b. Zone 2 lb 59 —
dms, t.c.l., c.l., f.o.b. Zone 1 lb 17½- —
f.o.b warehouse points, Zone 2 lb 18½- —
Diethylbenzene tankcars, Zone 1 lb 19½- —
Zone 2 lb .20½- —
Zone 1 is East of the Rockies Zone 2, West of the Rockies lb .15 —
Di-2-ethylhexyl adipate (see Di-octyl adipate). lb .16 —
Di-2-ethylhexyl phthalate (see Di-octyl phthalate).
Diethylene glycol dms, c.l. dlvd E, dms, t.c.l. same basis lb 17¾ —
tanks same basis lb 19¼ —
Diethylene glycol diethyl ether, dms., c.l., works lb. 15¼ —
dms., t.c.l., works lb. .55 . —
Diethylene glycol monobutyl ether, c.l., dms., frt. alld. E lb. .55¾- —
dms., t.c.l., frt. alld. E lb. .30¾- —
tanks, frt. alld. E lb. .32¼- —
Diethylene glycol monobutyl ether acetate, dms., c.l., works lb. .28¼- —
dms., t.c.l., works lb. .30¾- —
tanks, works lb. .31½- —
Diethylene glycol monoethyl ether, dms., c.l., dlvd. E lb. .28¾- —
dms., t.c.l., dlvd. E lb. .22½- —
tanks dlvd E lb. .24 . —
Diethylene glycol monoethyl ether acetate dms. c.l. works, dms, t.c.l. works lb. 27¼ —
tanks works lb 28 —
Diethylene glycol monomethyl ether, dms., c.l., dlvd. E lb. 25¼- —
dms., t.c.l., dlvd. E lb. .21 . —
tanks dlvd E lb. .22½- —
Diethylenetriamine dms. c.l. dlvd, E lb 18¼ —
dms, t.c.l. dlvd E lb 44 —
tanks, dlvd E lb 45½- —
Diethylstilbesterol USP, bots 100 kilo lots kilo 100.00 147.50
Digitalis leaves USP dom dms kilo 110.00 152.50
Digitoxin, USP, bots lb 1.25 —
Diglycol laurate dms, ton lots lb. .32½- —
Diglycol stearate, dms, t.l lb. .26 —
Digoxin acid ngs c.l. t.l. works, ngs t.c.l. works lb 15½- —
Dihexyl sebacate dms. c.l., works, dms, t.c.l. works lb .16 —
Dihydrazine sulfate dms. works lb 64 —
Dihydrostreptomycin sulfate bulk gram .03 —
1,3-Dihydroxy anthraquinone, dms., works lb 3.45 —
2,2-Dihydroxy-5-5-dichloro-diphenylmethane, pure, dms lb. 2.55 . —
Tech., dms., 20,000 lbs or more lb 1.11 . —
dms. 1,050 lbs to 20,000 lbs, dms., 150 lbs to 1,050 lbs lb 1.13 . —
Di-isobutyl ketone dms., c.l., dlvd, dms, t.c.l. dlvd. lb. .17 —
tanks dlvd lb. .18½- —
Di-isobutyl phthalate, dms., c.l., dlvd E, dms, t.c.l., same basis lb. .31½- —
tanks, same basis lb. .32½- —
Di-isobutylene dms c.l., dlvd E lb. .29 —
dms, t.c.l., dlvd E lb. .10 —
tanks, dlvd E lb. .11½- —
Di-iso-octyl phthalate, dms., c.l., works lb .08 —
dms., t.c.l., same basis lb. .29 . —
tanktrucks, 1,000-1,999 gals., works lb. .30½- —
tankcars tanktrucks, 2,000 gals., works lb. .27 . —
Di-iso-octyl sebacate, dms., c.l., works lb .26½- —
dms., t.c.l., works lb .62 —
tanks, works lb. .61¼- —
Di-isopropanolamine, dms., c.l., dlvd, dms., t.c.l., same basis lb. .60 —
tanks, same basis lb. .23¼- —
Di-isopropylamine dms., c.l., dlvd, E of Rockies lb. .24¾- —
dms., t.c.l., same basis lb. .20¾- —
tanks, same basis lb. .50½- —
Dillweed oil, dom., bots., dms lb. .52 . —
Dimethyl anthranilate, cns lb 48 . —
Dimethyl dichlorovinyl phosphate, 55-gal dms. dlvd lb 5.25 . —
Dimethyl ethanolamine, anhyd., dms., c.l., dlvd E lb 4.15 . —
dms., t.c.l., dlvd. E lb. .78 . —
tanks, dlvd. E lb. .79½- —
70% dms. c.l dlvd., 100% basis, contained amines lb. .75½- —
dms. t.c.l., dlvd. 100% basis lb. .78 . —
tanks, dlvd., 100% basis lb. .79½- —
Dimethyl hydroquinone, dms. lb 1.90 2.20
Dimethyl phthalate, dms., c.l., works lb. .29¾- —
dms., t.c.l., works lb. .31¼- —
tanktrucks, 1,000-1,999 gals., same basis lb. .27¾- —
tankcars tanktrucks, 2,000 gals., same basis lb. .27¼- —
Dimethyl sebacate, dms., c.l., works, dms., t.c.l., works lb 1.31 . —
tanks, works lb 1.30 . —
Dimethyl sulfate, ret. dms., c.l., works lb. 1.28 . —
ret. dms. t.c.l., works lb. .17½- —
tanks, works lb. .18½- —
Dimethyl sulfide, dms., c.l., works, dms., t.c.l., works lb. .16½- —
tanks, works lb. .17½- —
Dimethyl sulfoxide, dms., c.l., f.o.b. works lb. .18½- .19½
dms., t.c.l., same basis lb. .15 . —
tanks, same basis lb. .35 . —
Dimethylamine 25% soln., dms., c.l., frt. equald. 100% basis lb. .37 . .38
dms. t.c.l. frt equald 100% basis lb. .33 . —
tanks, frt equald, 100% basis lb. .38 —
40% soln. dms. c.l., frt. equald, 100% basis lb. .38½- —
dms. t.c.l., frt equald 100% basis lb. .28 . —
N,N-Dimethylaniline, dms., c.l., frt. alld lb. .35 . —
dms. t.c.l. same basis lb. .28 . —
tanks, same basis lb. .29 . —
N,N-Dimethylformamide, dms., c.l., t.l., works lb. .26 . —
dms., t.c.l., works lb. .32½- —
tanks, works lb. .33 . .34
2,4-Dinitroaniline, dms. frt alld lb. 30 . —
Dinitroaniline orange toner (CP, bbls. dlvd E of Rockies lb. .75 . —
Dinitroaniline orange toner prices 1c higher W of Rockies lb. 1.61 . —
m-Dinitrobenzene 89°C., dms lb .26 —
2,4-Dinitrochlorobenzene, crystallizing at 46½°C, dms., c.l., frt alld E lb. .17¼- —
dms., t.c.l. frt alld E lb. .17¾- —
tanks, frt alld E lb. .17 —
2,4-Dinitrophenol bbls lb 41 —
2,4-Dinitrotoluene oil, dms. lb 11 —
Refd 63°C dms lb 23 —
Dioctyl adipate dms. c.l., works lb. .42½- —
dms., t.c.l., works lb. .43½- —
tanks, works lb. .40 —
Dioctyl phthalate dms. c.l., frt. alld. E lb. .29 . —
dms., t.c.l., frt. alld. E lb. .30½- —
tanktrucks, 1,000-1,999 gals., same basis lb. .27 . —
tankcars tanktrucks, 2,000 gals., same basis lb. .26½- —
Dioctyl phthalate prices ¾c. higher in West.
Dioctyl senacate dms. c.l., works, dms, t.c.l. works lb .61¼ —
dms., t.c.l., works lb. .62¼ —
tanks works dlvd lb .62¼ —
1,4-Dioxane, dms., c.l., frt. alld. E, dms., t.c.l., frt. alld. E lb. .59¼- —
tanks, frt. alld. E lb. .31½- —
Prices in the west are 2c per lb higher.
Dipentaerythritol bgs c.l. t.l., dlvd E lb. .33 . —
bgs., t.c.l., t.t.l., dlvd E lb. .34 . —
Dipentene dest-dist. dms., c.l., works gal. lb. .35 . —
dms. t.c.l. works gal. lb .58 . —
dms., t.c.l. ex whse. lb .62 . —
tankscars works gal. 78 . —
Steam dist. dms c.l., works, South gal. gal. 41 . —
dms., t.c.l. dlvd New York gal. gal. 72 . —
tanks, works, South gal. 91 . —
Dip oil (see tar acid oil) lb. .55 . —
Diphenolic acid 1,000-lb or more, bgs works lb. 75 . —
Diphenolic polyether acids 1,000-lb. or more bgs. works lb 1.00 —
Diphenyl bgs. c.l. t.l. works lb .16¾- —
bgs. t.c.l. works lb .18½ —
tanks works lb .15¾ —
Diphenyl oxide perfume grade cns. lb .55 .70
Diphenyl phthalate dms. c.l. works, dms., t.c.l., works lb. .52 —
Diphenylamine red flake ngs. c.l., works frt equald lb .32 —
bgs. t.c.l., same basis lb. .34 —
Refd., fused tanks same basis, lb. .29 —
Reid. diphenylamine in dms. ½c per lb higher
Diphenylguanadine ngs., dms., ton lots, frt. alld lb. .51 . —
bgs., smaller lots, frt. alld lb. .52 . —
Diphenylhydantoin-sodium USP, dms lb 5.00 5.60
Dipropylene glycol, dms., c.l., frt. alld lb. .17 . —
dms. t.c.l. frt alld. lb. .18½- —
tanks, frt alld lb. .14¼- —
Dipropylene glycol prices 1c. higher in West.
Dipropylene glycol methyl ether, dms. c.l., dlvd. E lb. .20 —
dms., t.c.l., same basis lb. .21½- —
tanks, same basis lb. .18½- —
Dithiodibenzoic acid dms. 1,000-lb. lots, works lb. 1.80 . —
Di-o-toiylguanidine dms, ton lots, frt. alld lb. .71 . —
dms., smaller lots, frt. alld lb. .72 . —
Di-o-tolylthiourea tech solid, dms., c.l. t.l. frt alld lb. .58 . —
Divinylbenzene 20-25% dms., c.l., works frt equald lb. .20 . —
dms., t.c.l. same basis lb. .21 . —
tanks, same basis lb. .19 . —
50-60% dms. c.l., works, 100% basis lb. 1.00 . —
dms. t.c.l., works, 100% basis. lb. 1.05 . —
tanks same basis lb. .90 . —
Dodecenyl succinic anhydride dms., c.l., t.l., dlvd, E lb. .50 . —
dms, t.c.l., t.t.l., same basis lb. .52 . —
Dodecylbenzene, dms. c.l. t.o.b., works, frt equald lb. .134 - —
dms. t.c.l same basis lb .144 - —
tanks, same basis lb. .11½- —
Dodecylphenol c.l., frt alld lb. .22½- —
dms., t.c.l., same basis lb. .23½- —
tanks, same basis lb. .20 —
Dodecylphenol prices on shipments to Western States are 2c per pound higher
Dyes, coaltar certified colors for food, drugs and cosmetics, 500-lb. and 1-lb lots, dlvd.:
Blue FD&C, No 1 lb.15.65 -17.60
Green, FD&C, No. 1 lb.15.65 -17.60
No 2 lb.15.65 -17.60
No 3 lb.19.60 -22.85
Red, FD&C, No. 2 lb.31.30 -35.90
No 3 lb. 3.30 - 4.10
No 4 lb.19.60 -22.85
Dyes, coaltar, certified colors for drugs and cosmetics 500-lb and 1-lb. lots. dlvd:
Violet, FD&C, No. 1 lb.15.65 -17.60
Yellow, FD&C, No. 1 lb. 9.15 -11.05
No 5 lb 3.30 4.10
No 6 lb 3.30 4.10
Dyes, coaltar, certified colors for drugs and cosmetics, 200-lb. and 1-lb. lots. dlvd.:
Black, D&C, No 1 lb.10.50 -10.95
Brown, D&C, No 1 lb.15.65 -16.10
Green, D&C, No. 5 lb.15.65 -16.10
No 6 lb.15.65 -16.10
No 7 lb.15.65 -16.10
Orange, D&C, No. 3 lb.14.35 -14.80
No 4 lb.10.50 -10.95
No 5 lb.19.60 -20.05
Red, D&C, No. 17 lb 3.80 4.25
No 18 lb.10.50 -10.95
No 19 lb.23.60 -24.00
No 21 lb 15.00 -15.45
No 22 lb 3.90 4.35
No 28 lb.10.50 -10.95
No 33 lb.24.15 -24.65
Violet, D&C, No 2 lb.17.00 -17.45
Yellow, D&C, No. 7 lb.15.65 -16.10
No 8 lb.10.50 -10.95
No 10 lb.10.50 -10.95
No 11 lb.13.05 -13.50
Dyes, coaltar, certified colors for drugs and cosmetics, external use, 500-lb and 1-lb. lots. dlvd.:
Blue, Ext., D&C, No. 1 lb.15.65 -16.10
Green, Ext. D&C, No 1 lb 15.65 -16.10
Red, Ext., D&C, No 1 lb.13.05 -13.50
Yellow, Ext. D&C, No 1 lb 10.50 10.95
Dyes, coaltar for general use in cloth dyeing (numbers are those of the Color index scale or prototype), contract dlvd. No.
11110 Brilliant scarlet BN lb 1.79 . —
13390 Fast blue SR lb. 1.57 . —
14025 Yellow 2G lb. 1.26 . —
14030 Orange R. extra, conc. lb. 1.64 . —
14645 Chrome black I lb. .77 . —
14720 Rubine XX, conc lb. 1.76 . —
15510 Orange Y, extra conc. lb. .83 . —
15520 Fast Red A, conc lb. .99 . —
15705 Chrome blue black R, conc. lb. 1.61 . —
16150 Scarlet 2RL lb. 1.12 . —
16255 Brilliant scarlet 3RN, conc. lb. 1.22 . —
16230 Fast light, orange 2G lb. 1.26 . —
17590 Brown PG lb. 1.39 . —
18050 Phloxine 2G lb. 3.00 . —
18055 Fuchsine 6B lb. 1.16 . —
18965 Fast yellow 2G lb. 1.55 . —
19140 Yellow XX lb. 2.32 . —
19555 Yellow NN, conc. lb. 2.48 . —
20170 Brown Y lb. 3.67 . —
20470 Blue black, extra, conc lb. 1.33 . —
21010 Brown, RX, conc lb. 1.51 . —
22240 Scarlet B lb. 1.42 . —
22310 Red FC lb. 2.81 . —
22311 Brown MCW lb. 1.57 . —
22510 Blue 2B, extra conc lb. 1.59 . —
23500 Red 4BX, conc. lb. 1.51 . —
24410 Sky blue FF, extra, conc. lb. 1.80 . —
24895 Brilliant yellow, conc. lb. 1.95 . —
26360 Navy blue 3R, conc. lb. 3.27 . —
26695 Black F, conc lb. 1.84 . —
26900 Milling Red 3R, conc lb. 2.30 . —
27075 Neutral black 2B, conc lb. 2.24 . —
27720 Gray L lb. 2.75 . —
29185 Fast scarlet 4BNC lb. 2.18 . —
30015 Diazo black VJ conc. lb. 2.23 . —
30045 Yellow brown K, extra lb. 2.48 . —
30225 Black EB, 200% lb. 1.45 . —
30295 Green BY conc. lb. 1.33 . —
35660 Brown B lb. 1.07 . —
37565 Naphthol SWF lb. 2.89 . —
40000 Yellow 2G lb. 1.85 . —
41000 Yellow OX lb. 1.44 . —
42000 Green V crystals lb. 2.45 . —
42040 Brilliant green G crystals lb. 2.73 . —
42090 Blue EG lb. 3.62 . —
42100 Milling green 6B, conc. lb. 1.85 . —
42840 Violet 4BXN lb. 4.78 . —
43830 Brilliant blue, BBG lb. 2.43 . —
44045 Blue B, extra conc. lb. 2.44 . —
45170 Red BX lb. 3.61 . —
50415 Nigrosine SSJ lb. 4.76 . —
52015 Blue GXX lb. 1.03 . —
58005 Alizarin red SC lb. 2.54 . —
59700 Golden orange GFD, single paste lb. 3.64 . —
59710 Flaming orange 6RD double paste lb. 2.70 . —
59800 Dark blue BO, single paste, double paste lb. 4.90 . —
59825 Jade green NC, supra, powder lb. 2.28 . —
61570 Alizarin green GG extra lb. 1.75 . —
63010 Alizarin blue SAPG lb. 3.81 . —
63015 Alizarin blue black B lb 3.90 . —
69825 Blue BLFD double paste lb. 3.26 . —
70809 Brown BR single paste lb. 2.76 . —
Dyes, coaltar oil-soluble, 100-lb. drums, dlvd. No
12140 Oil scarlet BL lb. 2.03 . —
12055 Oil orange 7078 V lb 1.87 . —
26120 Oil red N 1700 lb 1.38 . —
42535B Methyl violet base lb 1.94 . —
44045B Victoria blue base lb 1.88 . —
50415B Oil black 8603 lb 4.06 . —
61565 Alizarin cyanine green base. lb. 80 . —
Dyes, coaltar, spirit soluble, 100 lb. dms., dlvd., Black RB lb. 6.13 . —
Spirit brown GN lb. 3.89 . —
Spirit orange R conc. lb. 5.30 . —
Spirit red B conc. lb. 5.87 . —
Pr 317 Spirit yellow 2R conc lb. 6.41 . —
Pr 554 Spirit blue THN lb. 4.62 . —
Echinacea root, bls. lb. 1.25 . —
Elm bark, grinding, bls. lb. .30 . .38
Powd., bbls., kgs lb. .60 . —
Select, bundles lb. .75 . —
Emetine hydrochloride, USP, bots. oz. 48.40 . —
Endrin, tech, dms., 100-lbs. or more, 100% basis, dlvd lb. 2.77 . —
Eosin red toner, bbls, works lb. 1.95 . —
Ephedrine syn., USP, anhyd., bots, 100-oz. lots oz. .98 . 1.00
hydrous, bots., 100-oz lots, oz. .92 . —
Ephedrine hydrochloride, NF, dms., 100-oz., f.o.b. works oz. .75 . —
Ephedrine sulfate, USP, cryst., dms., 100-oz f.o.b works oz. .73 . —
USP, powd., dms., 100-oz., same basis oz. .73 . —
Epichlorohydrin, dms., c.l., dlvd lb. .29½- —
dms., t.c.l., dlvd. lb. .31 . —
tanks, dlvd. lb. .27 . —
l-Epinephrine base, syn. USP, bots., 100 gram lots gram .58 —
Epsom salt (see Magnesium sulfate)
Erigeron oil cns lb. 11.00 —
Ergot, NF, dms., tin-lined lb. 2.00 . 2.50
Eserine salicylate, bots oz. 34.50 -40.00
Eserine sulfate bots oz. 86.00 —
Ester gum, gum-rosin type, dms., c.l. dlvd, Ill., Md., Ky., E. States, Minneapolis, N. C., Ohio, St. Louis, St Paul Va., W Va lb. .18½- —
Wood-rosin type dms. c.l., same basis lb. .18½- —
Ether (see specific product)
Ethyl acetate, nat., ferment, 85-88%, dms. c.l dlvd lb. .15 —
dms., t.c.l., dlvd lb. .16½- —
tanks dlvd lb. .12½- —
95-98% dms. c.l., dlvd. lb. .15¼- —
dms., t.c.l., dlvd lb. .16¾ —
tanks, dlvd lb. .12¾- —
Ethyl acetate nat., ferment, 99%, dms. c.l. dlvd lb. .15½- —
dms., t.c.l. dlvd lb. .17 —
tanks, dlvd lb. .13 —
syn., 85-88% dms., c.l., dlvd lb. .15 —
dms. t.c.l., dlvd lb. .16½- —
tanks, dlvd lb. .12½- —
Ethyl acetate syn. 95-98%, dms., c.l., dlvd lb. .15¼- —
dms., t.c.l., dlvd lb. .16¾- —
tanks, dlvd lb. .12¾- —
99% dms. c.l. dlvd. lb. .15½- —
dms., t.c.l., dlvd. lb. .17 —
tanks dlvd. lb. .13 —
Ethyl acetoacetate, dms., c.l., dlvd. lb. 58½- —
dms. t.c.l. dlvd. lb. .60 —
tanks, dlvd lb. .56 —
Ethyl acrylate, dms., c.l., t.l., dlvd. lb. .34¾- —
dms., t.t.l., dlvd lb. .35¾- —
tanks, dlvd. lb. .32¼- —
Ethyl alcohol, 190 pt., USP, tax paid, dms., c.l., dlvd E of Rockies gal 20.63 —
dms. t.c.l. same basis gal 20.73 -20.84
Ethyl alcohol, 190 pt., USP, tax-free, dms. c.l dlvd E of Rockies gal 68 —
dms. t.c.l., same basis gal 78 .89
tanks, same basis gal 52 —
Ethyl alcohol, absolute 200 pf., tax paid, dms dlvd E of Rockies gal 21.75 —
dms. t.c.l. same basis gal 21.85 -21.96
tanks same basis gal 21.59 —
Ethyl alcohol denatured (see Denatured alcohol, ethyl)
Ethyl aminobenzoate USP (see Benzocaine).
Ethyl amyl ketone dms. c.l., dlvd, dms. t.c.l. same basis lb .20 —
tanks same basis lb. .21½ —
Ethyl benzoate bots lb 17½ —
Ethyl bromide tech., 98%, dms. c.l., frt alld, E lb. .75 1.00
dms. t.c.l. frt alld E lb 43 —
tanks, frt. alld. E lb. 45 —
2-Ethyl butyl alcohol, dms., c.l., works lb. .40 . —
dms. t.c.l. works lb. .30 —
tanks, works lb. .30¾- —
Ethyl butyl ketone, dms. c.l., t.l., works lb. .28 . —
dms t.c.l., t.l. works lb. .36 . —
tanks works lb. .36¾- —
Ethyl butyrate dms, works lb. .34 —
Ethyl carbamate (see Urethane) lb. .85 1.00
Ethyl cellulose, vis., 7 cps., ngs., 5,000 lb lots or more, frt. alld E lb. .73 . —
bgs. smaller lots frt alld E lb. .75 . —
Ethyl cellulose, vis. 10, 20, 50, 100, 150 cps., bgs., 5,000-lb. lots or more, frt. alld. E lb. .68 . —
bgs., smaller lots. frt alld E. lb. .70 . —
Ethyl chloride tech. cyls., works, dms. works lb .20 .22
tanks works lb 18 20
Ethyl cinnamate, cns lb 10 —
Ethyl ethanolamines, mixed, dms., c.l., dlvd E lb. 3.15 - 3.35
dms. t.c.l dlvd E lb. .43½ —
tanks dlvd E lb. .44½- —
Ethyl ether, absolute, ACS dms lb. .41½- —
Anesthesia USP dealers 1-lb. lb. .27 —
½ lb cns lb. 1.01 . —
¼ lb cns lb 1.09 . —
Indust. dms. c.l. dlvd. lb. 1.21 —
dms., t.c.l. dlvd E lb. .13½- —
tanks dlvd E lb. .15 . —
2-Ethyl hexoic acid dms., c.l., t.l., dlvd E lb. .11 —
dms. t.c.l., t.t.l., dlvd E lb. .37 —
tanks, dlvd E lb. .38½- —
2 Ethyl hexoic acid 1c higher W of Rockies.
2-Ethylhexyl acrylate, dms., c.l., t.l., straight or mixed frt. alld. E lb. .34½ —
dms., t.t.l., same basis lb. .39½- —
tanks, same basis lb. .40½- —
2-Ethylhexyl alcohol, dms., c.l., dlvd, E lb. .37 . —
dms., t.c.l., dlvd. E lb. .23¾- —
tanks, dlvd. E lb. .25¼- —
Ethyl iodide chvs, works lb. .21¼- —
Ethyl methacrylate dms c.l., frt. equald lb 3.30 —
dms. t.t.l. frt equald lb .52 —
tanks frt equald lb .52½- —
Ethyl morphine hydrochloride, USP bots oz. 11.85 —
Ethyl oenanthate dms lb 1.05 1.30
Ethyl oxalate (see Diethyl oxalate)
Ethyl silicate dist (see Tetraethyl orthosilicate).
Ethyl silicate 40% available SiO, dms., c.l., dlvd. E lb. .44 . —
dms., t.c.l., dlvd. E lb. .45½- —
tanks, dlvd. E lb. .42 . —
N-Ethyl-a-naphthylamine, dms. works lb 1.04 . —
N-Ethyl-m-toluidine tech., tq., tanks frt alld lb 83 . —
N-Ethyl-o-toluidine, bbls lb 88 . —
Ethylamine (see Mono- Di- or Tri-)
N-Ethylaniline dms. c.l. frt. alld, dms. t.c.l. frt alld lb 57 . —
tanks frt alld lb .58 —
Ethylbenzene 99% dms. c.l., t.l., frt. equald lb. .14 —
dms t.c.l., same basis lb .16 —
tanks, same basis lb. .11½- —

Ethylene, contract, refy. gate....lb. .0475- .053o
Ethylene dibromide, dms., c.l., frt. equald lb. .30½- —
dms., l.c.l., frt. equald....lb. .31½- —
tanks, frt. equald....lb. .28½- —
Ethylene dichloride, dms., c.l., divd. lb .11½- —
dms., l.c.l., same basis....lb. .13 - —
tanks, same basis....lb. .09 - —
Ethylene dichloride prices W of Rockies, 1c. per lb. higher
Ethylene glycol, indust., dms., c.l., divd E lb. .16 - —
dms., l.c.l., same basis....lb. .17½- —
tanks, same basis....lb. .13½- —
Ethylene glycol monobutyl ether, dms. c.l., divd. E lb. .22 —
dms., l.c.l., divd. E....lb. .23½- —
tanks, divd. E....lb. .19½- —
Ethylene glycol monoethyl ether, dms. c.l., divd. E lb. .21 —
dms., l.c.l., divd. E....lb. .22½- —
tanks, divd E....lb. .18½- —
Ethylene glycol monoethyl ether acetate, dms., c.l., divd. E lb. .19½- —
dms., l.c.l., divd. E....lb. .21 - —
tanks, divd. E....lb. .17 - —
Ethylene glycol monomethyl etner, dms., c.l., divd. E lb. .21 - —
dms., l.c.l., divd. E....lb. .22½- —
tanks, divd E....lb. .18½- —
Ethylene glycol monomethyl ether acetate, dms., c.l., works lb. .29 - —
lb. .29 - —
dms., l.c.l., works....lb. .29¾- —
tanks, works....lb. .27 - —
Ethylene glycol monostearate, flake, 150-lb. ctn lb. .33 - —
Ethylene oxide, dms. c.l. divd E. lb. .21½- —
dms., l.c.l., divd. E....lb. .24½- —
tanks, divd E....lb. .15½- —
Ethylene trichloride (see Trichloroethylene)
Ethylenediamine, 85-88%, dms., c.l., divd E., 100% basis lb. .42 - —
dms. l.c.l. divd E. 100% basis. lb. .43 - —
tanks, divd E., 100% basis lb. .40 - —
Ethylvanillin, 100-lb. fib. dms., 500-lb. 6.75 - —
less than 500-lb....lb. 7.40 - —
Eucalyptol, USP, cns., dms....lb. .85 - 1.40
Eucalyptus oil, NF rectified, 70-75%, dms lb. .45 - —
NF rectified, 80-85%, dms. lb. .53 - .62
Eugenol, tech., dms....lb. 0.00 - —
USP, dms....lb. 1.90 - —
Euphorbia herb, bls....lb. .12 - .15

F

F salt paste tech. dms. works lb 2.30 - —
Fennel oil, sweet, USP, cns....lb. 2.60 - —
Fennel seed Argentine, bgs....lb 16 - —
French, tight, bgs....lb. .16 - —
Indian, tight, bgs....lb. .17½- —
Rumanian, bgs....lb. .14 - —
Yugoslav tight bgs....lb. .16½- —
Fenugreek seed, Moroccan, bgs lb. .09 - —
Ferric chloride, anhyd., tech., 350-lb. dms., c.l., works 100 lbs. 8.00 - —
dms., l.c.l., works 100 lbs. 9.00 - —
Ferric chloride indust., cryst., bbls., c.l., works 100 lbs. 5.25 - 6.75
bbls. l.c.l., works 100 lbs. 5.75 - 7.25
42° Be., photo grade, cbys., c.l., works 100 lbs. 7.25 - 8.25
sewage grade, tanks, frt. equald. 100% basis 100 lbs. 4.00 - —
USP cryst. dms. t.l. works lb. 08½- —
Ferric citrate, gran., dms....lb. .86 - —
Ferric hypophosphite, NF, 175-lb. dm lb. 4.25 - —
Ferric naphthenate, liq., 6% Fe, dms., frt. alld lb. .28¼- —
Ferric oxalate, tech., gran., 50-lb. dm. f.o.b works E lb. .89 - —
Ferric oxides (see iron oxides)
Ferric phosphate NF, soluble, gran pearls, cs lb. .72 - .75
Ferric pyrophosphate, NF VII, soluble, gran. pearls, 225-lb. dm.lb. .79 - —
Ferric resinate, dms., ton lots, frt. alld lb. .45 - —
Ferric stearate dms., c.l., frt. alld. lb. .39 - —
dms., l.c.l., frt. alld lb. .40 - .44
Ferric sulfate, partly hydrated, bgs., c.l., works ton.35.25 —
bgs., l.c.l., works ton.36.25 -42.25
bulk, c.l., works ton.33.25 - —
Ferric-amonium citrate, NF, brown, gran., 100-lb. dms lb. .68 - —
NF, green, gran., 100-lb. dms., frt. equald lb. .68 - —
Ferric-ammonium oxalate, fine gran., dms lb. .27½- .29½
Ferric-potassium oxalate, fine gran., dms lb. .32½- .34½
Ferric-sodium oxalate, fine gran., dms lb. .27½- .29½
Ferrous gluconate, USP, 200-lb. dm., frt. equald lb. .96 - —
Ferrous sulfate, gran., bgs., c.l., works ton.34.50 - —
bgs., l.c.l., divd. Metropolitan area, 100 lbs 3.35 - 4.25
bbls., c.l., works ton.40.00 - —
bulk, c.l., works ton.27.00 - —
USP cryst., bbls., dms....lb. .09½- .10
Fir balsam, Canada, bbls....gal.34.00 -35.00
Oregon, bbls....gal. 3.40 4.64
Fir oil, Canada, cns....lb. 1.70 - 1.75
Fish oil, refd., alkali, dms....lb. .1300- .1350
Kettle-bodied, dms....lb. .1530- .1580
Light-pressed, dms....lb. .1150- .1200
tanks....lb. .10 - —
Fishliver oil, nat., high potency, 100,000 to 1,500,000 A units per gram, dms 1,000,000 units. .12 - —
Fishmeal, dom., menhaden, 60% protein, grd., bgs., Atlantic and Gulf coasts to 1.92.50 -95.00
Fishscrap, dom., menhaden, dried, 60% protein, grd., bgs., Atlantic and Gulf coasts ton.88.00 - —
Fleaseed (see Psyllium seed)
Folic acid USP nots. fib. dms. kilo lots or more, gram. .25 - —
10% feed grade fib dms., 3 kilos or more kilo.30.00 -44.00
Formaldehyde, 37% (inhibited, 12 to 15% methanol), USP, dms., c.l. divd lb. .0695- —
tanks, divd....lb. .0405- —
Formaldehyde, methanol-free (uninhibited), tanks, divd lb. .0375- —
Formic acid 85% cbys. c.l., works. lb. .1570- —
cbys., l.c.l., works....lb. .1620- .1720
90%, cbys., c.l., works....lb. .1625- —
cbys., l.c.l., works....lb. .1675- .1775
Frangetree bark, bls lb. .65 .70
Fumaric acid tech. 250-lb. dms., c.l., frt. equald lb. .23¼- —
dms., l.c.l., frt. equald lb. .24¾- —
Fumaric acid in bags ½c. per lb. less.
Furfural, dms. c.l. works....lb. .13 - —
dms. l.c.l., works....lb. .14 - —
tanks, divd. E....lb. .11½- —
tanks, divd. W....lb. .12½- —
Furfuryl alcohol, cns., works lb. .28 —
dms., c.l., t.l., Newark, N. J lb. .20½- —
dms., l.c.l. t.t.l., Newark N J lb. .21½- —
dms., c.l., t.l., Memphis, Tenn lb. .19 - —
dms., l.c.l. t.t.l., Memphis, Tenn. lb. .20 - —
tanks, Memphis, Tenn....lb. .175 - —

Fusel oil, refd., dms., c.l., divd lb. .18 - —
dms., l.c.l., divd....lb. .19½- —
tanks, divd....lb. .15½- —

G

G salt, bbls., frt. alld., 100% basis.lb. .73 - —
Gallic acid, NF VII, bbls., 1,000-lb. lots lb. 2.00 - —
bbls., smaller lots lb. 2.02 - 2.22
Tech., bbls., 1,000-lb. lots....lb. 1.78 - —
bbls., smaller lots lb. 1.80 2.00
Gamma acid, dry grd., bbls., frt. alld lb. 1.75 - —
Gammapicoline (see g-picoline).
Garlic oil, dom., bots. oz. 4.75 6.05
Imp., bots. oz. 4.50 5.00
Gaultheria oil (see Wintergreen oil).
Gelatin, edible 75 AOAC test, bbls., c.l., divd lb. .55 - —
150 AOAC test, bbls., c.l., divd. lb. .64 - —
200 AOAC test, bbls., c.l., divd. lb. .70 - —
225 AOAC test, bbls., c.l., divd. lb. .74 - —
275 AOAC test, bbls., c.l., divd. lb. .82 - —
Gelsemium root, bls....lb. .30 - .35
Gentian root, bls....lb. .24 - —
Grd., bbls., bxs....lb. .30 - —
Powd., bbls., bxs....lb. .30 - —
Geraniol extra cns., dms. lb 1.75 2.40
Soap grade, dms lb 90 1.75
Standard cns., dms....lb. 1.65 —
Synthetic, dms lb 1.30 —
Geranium oil, Algerian, cns....lb.19.00 -22.00
Bourbon, cns....lb.20.00 -22.00
Geranium oil Turkish (see Palmarosa oil).
Geranyl acetate, cns....lb 1.90 2.70
Synthetic, dms....lb. 1.45 —
Ginger oil, dist., bots....lb.11.50 -14.00

Ginger oleoresin, NF, from African root, bots lb. 4.25 - 5.00
NF, from Jamaican root, bots. lb. 7.75 - —
Ginger root, Cochin, bgs....lb. .19½- —
Jamaican, No. 3, bgs....lb. .28 - —
Nigerian, split, bgs....lb. .20 - —
Sierra Leone, bgs....lb. .35 - —
Glauber's salt (see Sodium sulfate).
Gluconic acid tech. 50% dms., c.l., t.l., f.o.b. works lb. .20 - —
dms., l.c.l., f.o.b. works lb. .21 - —
tanks, f.o.b. works lb. .17 - —
Glue, bone, extracted, dry bone, 86 jellygrams, bgs., c.l., divd lb. .16 - —
131 jellygrams, bgs., c.l., same basis lb. .16½- —
164 jellygrams, bgs., c.l., same basis lb. .18½- —
Glue, bone, extracted, dry bone, 191 jellygrams, bgs., c.l., same basis lb. .19½- —
222 jellygrams, bgs., c.l., same basis lb. .21 - —
Glue, bone, green, 40 jellygrams, bgs., c.l., same basis lb. .16 - —
86 jellygrams, bgs., c.l., same basis lb. .16 - —
115 jellygrams, bgs., c.l., same basis lb. .16½- —
Glue, bone, green, 135 jellygrams, bgs., c.l., same basis lb. .17½- —
164 jellygrams, bgs., c.l., same basis lb. .18½- —
180 jellygrams, bgs., c.l., same basis lb. .19½- —
200 jellygrams, bgs., c.l., same basis lb. .20½- —

Bone glue, l.c.l., prices 2c. higher.
Glue, hide, 70-94 jellygrams, bgs., c.l., divd lb. .18 - —
95-149, bgs., c.l., divd....lb. .19 - —
122-149, bgs., c.l., divd....lb. .20½- —
150-177, bgs., c.l., divd....lb. .22½- —
178-206, bgs., c.l., divd....lb. .25 - —
Glue, hide, 207-235, bgs., c.l., divd lb. .28 - —
237-266, bgs., c.l., divd....lb. .30½- —
267-298, bgs., c.l., divd....lb. .32½- —
299-330, bgs., c.l., divd....lb. .34½- —
331-362, bgs., c.l., divd....lb. .36½- —
363-394, bgs., c.l., divd....lb. .38 - —
Glue, hide, 395-427, bgs., c.l., dvid. lb. .40 - —
428-460, bgs., c.l., divd....lb. .42 - —
461-494, bgs., c.l., divd....lb. .44 - —
495-529, bgs., c.l., divd....lb. .46 - —
Hide glue, l.c.l., prices 2c. higher.
l-Glutamic acid, 99½%, fib. dms., 100-lb. lots, frt. alld lb. 1.80 - —
fib. dms., 25-lb. lots, frt. alld. lb. 1.88 - —
l-Glutamine, bots., 1-9 kilo lots, kilo.150.00 -300.00
Bots., 50-kilo lots....kilo.100.00 - —
Bots. 500-kilo lots....kilo. 75.00 - —
Glycerine, dom., nat., crude, saponification 88%, tanks, divd. lb. .1670- .1760
nat., crude, soapiye, 80%, tanks, divd lb. .1520- .16
nat., refd., USP, CP, 99%, dms., c.l., divd lb. .28⅞- —
dms., l.c.l., divd....lb. .29⅝- —
tanks, divd....lb. .27½- —

HARDWORKING JEFFERSON CHEMICALS

POLYETHYLENE GLYCOLS

POLYETHYLENE GLYCOLS

SPECIFICATIONS

		300	400*	600	4000**
Average molecular weight	min.	285	380	570	—
	max.	315	420	630	—
Specific gravity, 20/20°C	min.	1.125	1.125	1.120(1)	—
	max.	1.130	1.130	1.125(1)	—
Color, Pt-Co scale	max.	25	25	25	50(2)
Ash, wt. %	max.	0.10	0.10	0.10	0.25(3)
pH, 5% aqueous solution, 25°C	min.	4	4	4	4.5
	max.	7	7	7	7.5
Viscosity, 210°F. centistokes	min.	—	—	—	75
	max.	—	—	—	85
Freezing point, °C	min.	—	—	—	53
	max.	—	—	—	56
Acidity as acetic acid, wt. %	max.	—	—	—	0.02
Water solubility		Complete	Complete	Complete	Complete(4)

Note: Polyethylene glycols of all molecular weights are clear and substantially free of foreign matter.
* U.S.P. Grade of Polyethylene Glycol 400 also available.
** Meets U.S.P. specifications.
(1) At 25/4°C.
(2) In 25% water solution.
(3) Sulfated.
(4) Light transmittance of a 25% solution before filtration shall be not less than 95% of the value obtained after filtration.

SELECT PROPERTIES

	300	400	600
Flash point, (open cup), °F	>375	>425	>450
Viscosity, SUS, 210°F	45.4	52.7	61.7
Weight, 20°C., lbs./gal	9.39	9.40	9.37

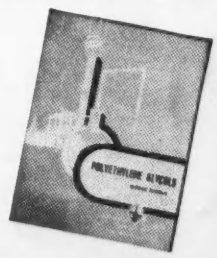
SHIPPING AND HANDLING

Jefferson polyethylene glycols are available in coiled tank cars, mixed-shipment compartmented cars, coiled tank wagons in certain areas, resin-lined, non-returnable steel drums, and fiber bags (depending on the molecular weight).

The handling and storage of the liquid polyethylene glycols is a straightforward operation. However, due to their relatively low freezing point, hygroscopicity, and color instability at elevated temperatures, storage conditions should be controlled. These products should be maintained 10-15°F. above their freezing point. Temperatures above 120°F. should be avoided. Complete handling and storage recommendations are contained in the literature at right.

TECHNICAL INFORMATION

For more detailed chemical and physical data on polyethylene glycols, ask the Jefferson technical service people or write for this Technical Brochure . . .
Jefferson Chemical Company, Inc. 1121 Walker Avenue, P. O. Box 303, Houston 1, Texas.



HOUSTON • NEW YORK • CHICAGO • CLEVELAND
CHARLOTTE • LOS ANGELES • SAN FRANCISCO

JEFFERSON CHEMICALS

Glycerine, dom., nat., refd., USP, CP, 96%, dms., c.l., divd lb. .28 - —
dms., l.c.l., divd lb. .28¼- —
tanks, divd. lb. .26¼- —
nat. high gravity, dms., c.l., divd lb. .28¼- —
dms., l.c.l., divd lb. .29½- —
tanks, divd. lb. .27 - —
Glycerine, dom. syn., dms., c.l., divd lb. .29 - —
dms., l.c.l., divd lb. .29¾ - —
tanks, divd. lb. .27¼- —
Imp. nat. crude, soapiye, 80%, c.i.f lb. .15 - —
Glycine (see Aminoacetic acid).
Glycerol (see Glycerine)
Glycolic acid (see Hydroxyacetic acid).
Glycolonitrile 70%, aqueous, dms., c.l., t.l., works lb .40 - —
dms., l.c.l., same basis lb. 42 - —
tanks, same basis lb. .39 - —
Glyoxal, 30%, dms., c.l., works lb. .20½- —
dms., l.c.l., works lb. .21¼- —
tanks, works lb. .18 - —
Golden seal root, NF, tested, bls. lb. 2.90 - 3.00
Gramicidin, 1 to 5 kilos, f.o.b. works gram. 4.25 - —
Grapefruit oil, dms lb. 2.75 - 2.90
Graphite, amorp., powd., bgs., fib. dms., ex whse lb. .06 - .09½
Cryst. 88-90%, powd., bgs., fib. dms., ex whse lb. .19 - .21½
90-92%, powd., bgs., fib. dms., ex whse lb. .21 - .24½
Graphite, 95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31½
Flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 .31
No. 2, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
Grease, white, choice all hog, tanks, divd lb. .09¾- .09¾
Yellow, tanks, divd lb. .06½- .06¼
Grease oil, No. 1, dms., c.l., f.o.b. Chicago lb. .11 - —
dms., l.c.l., same basis lb. .13 - —
tankcars, same basis lb. .09½- —
Extra winter, strained, dms., c.l., Chicago lb. .13½- —
dms., l.c.l., same basis lb. .15½- —
tankcars, same basis lb. .12 - —
Prime, burning, dms., c.l., same Chicago lb. .15 - —
dms., l.c.l., same basis lb. .17 - —
tankcars, same basis lb. .13½- —
Other areas ¾c. higher, except Texas and West Coast, 1¼c. higher.

GREEN PIGMENTS
Green pigment quotations are listed individually. For example, prices on Green, chrome, may be found in the C's under Chrome green.

Grindelia robusta herb, bls. lb. .40 —
Guaiacol, NF, cryst., dms, tins lb. 2.10 2.15
Guaiacol, NF, liq., cbys., dms. lb. 2.30 - 2.40
Guaiacwood oil, cns. lb. .65 - .80
Guaiacol carbonate, NF VII, dms lb 3.40 3.45
Guar gum, edible., bgs., c.l., f.o.b. shipt. pt. lb. .38 - —
bgs., l.c.l. same basis lb. .40 - .42
Indust., bgs., c.l., same basis lb. .32 - —
Tech., bgs., c.l., same basis lb. .30 - —

GUMS
Gum quotations are listed individually. For example, prices on Gum, Dammar, may be found in the D's under Dammar gum.

H

H acid, dry, bbls, c.l., frt alld., 100% basis lb. 1.00 - —
bbls., l.c.l. same basis lb. 1.05 - —
Hansa yellow 10 G, bbls., divd, E. of Rockies lb 2.45 —
Hansa G yellow, pigment, bbls lb. 2.20 - —
Hawthorn berries, bgs. lb .18 - .20
Heliotropin 100-lb lots, dms. lb 2.60 3.40
Hellebore root dom. green, bls lb 70 .75
Helonias root bls lb 1.50 —
Hemlock oil, cns. lb. 2.55 3.00
Henbane leaves, bls lb. .40 - .45
Heptachlor dms. c.l., t.l., frt. alld., 100% basis lb. .96 - —
Heptane, indust., tankcars, New Jersey and New York gal. .20 - —
Houston, Texas gal. .1625- —
Hesperidin, purif., 50 kilos, f.o.b. works kilo. 19.70 - —
Hesperidin methylchalcone, 50 kilos, f.o.b. works kilo. 49.25 - —
Hexachlorophene, dms., 1,100 lbs. or more lb. 1.84 - —
dms., to 1,100 lbs. lb. 1.94 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 20,000-lb. lots or more, Perth Amboy or New York City lb. .233 - —
Hexamethylenetetramine, tech., bgs., 1,000-19,999-lb lots, same basis lb. .243 - —
bgs., smaller lots, same basis lb. .253 - —
fib dms., 1,000-lb. lots or more, same basis lb. .250 - —
fib dms., smaller lots, same basis lb. .253 - —
Hexamethylenetetramine, USP, bgs., 500 lbs. or more, f.o.b. Fords, N. J., divd. New York City and Philadelphia lb. .42½- —
bgs., smaller lots, same basis lb. .43½- .48¼
Hexane, industrial, tankcars, New Jersey and New York gal. .20 - —
Houston, Texas gal. .16 - —
i-Hexanol, dms., c.l., works lb. .35 - —
dms., l.c.l., works lb. .35¾- —
tanks, works lb .33 - —
Hexyl cinnamic aldehyde, dms lb. 3.95 - 4.00
n-Hexyl methacrylate, dms., c.l., works lb. .75½- —
dms., l.c.l., works lb. .76 - —
Hexyl salicylate, dms. lb. 1.70 - 1.75
Hexylene glycol, dms., c.l., divd lb. .17½- —
dms., l.c.l., divd lb .19 - —
tanks, divd lb .15 - —
Hexylresorcinol, USP, dms., 25-lb lots or more divd lb. 14.00 - —
dms. smaller lots, divd lb. 14.50 - —
Homatropine hydrobromide, USP bots oz. 3.25 - —
Homatropine methylbromide, USP, bots oz. 3.00 - 3.25
Hoofmeal, 17-18% ammonia bulk, c.l., Chicago unit-ton. 6.75 - —
Horehound herb, bls lb .18 - .20
Hydrastis (see Goldenseal).
Hydrazine hydrate, 85% ret. dms., works lb. 1.35 1.55
100%, ret. dms., works lb 1.60 1.90
Hydriodic acid, purit., 47%, 2-cbys., f.o.b works lb 2.92 —
Hydroabietyl alcohol, tech. solid, dms., c.l., divd, zone 1 lb. .29¼- —
dms., l.c.l., divd, zone 1 lb. .29¾- .30¼
tanks, divd zone 1 lb 27¼- —
Zone 1 for hydroabietyl alcohol comprises all of continental US except Ariz., Calif., Colo., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo., and the western part of Texas.
Hydrobromic acid, medicinal, 48%, cbys, frt equald lb. .48 - .56
Hydrochloric acid, anhyd. (see Hydrogen chloride)
Hydrochloric acid, 18° cbys., c.l., works 100 lbs 2.50 - —
cbys., l.c.l., divd, Metropolitan area 100 lbs 2.90 - 3.05
tanks, works, frt. equald ton. 28.00 - —
20°, cbys., c.l., works 100 lbs 2.75 - —
cbys., l.c.l. divd Metropolitan area 100 lbs 3.15 - —
tanks, works frt equald ton. 30.00 - —
Hydrochloric acid, 22° cbys., c.l., works 100 lbs 3.25 - —
cbys., l.c.l., divd, Metropolitan area 100 lbs 3.65 - —
tanks, works, frt equald ton. 35.00 - —
Hydrochloric acid CP, USP, consumers, cbys., extra, c.l., works lb. .15¾- —
cbys., l.c.l., same basis lb. .17¼- .17¾
Hydrochloric acid, 5-pint bots., extra cs., c.l., same basis, lb. .20¾- —
Hydrocortisone acetate, bulk, bots., kilo lots or more gram. .95 - —
Hydrocortisone alcohol, bulk, bots., kilo lots or more gram. 1.00 - 1.90
Hydrocyanic acid, dilute, NF, 2%, 5-pint bots., f.o.b. works, pint. .70 - —
Hydrofluoric acid, anhyd. (see Hydrogen fluoride)
Hydrofluoric acid, aqueous, 70%, 55-gal. or 30-gal. dms., c.l., t.l., divd 100 lbs. 19.25 - —
55-gal. dms., l.c.l., t.l.l., divd 100 lbs. 20.75 - —
20-gal. dms., c.l., t.l., divd 100 lbs. 21.00 - —
Hydrofluoric acid, aqueous, 70%, 20-gal., dms., l.c.l., t.l.l., divd 100 lbs. 22.50 - —
tanks, works frt equald 100 lbs 13.40 —
Delivered prices apply to all states east of Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Washington and Wyoming. In those states add $2.70 per cwt. for drum delivery.
Hydrofluosilicic acid, dms., works, 30% basis lb. .07 - —
Hydrofuramide, dms., fib ctns., works lb. .30 - .40
50-lb cyls., l.c.l., works lb. .55 - .60
Hydrogen chloride, anhyd., 50-lb. cyls. l.c.l. works lb. .45 - —
Hydrogen cyanide liq., 98% tanks, works lb. .14 - —
Hydrogen fluoride, anhyd., cyls., divd E lb. .30½- .32½
cyls., divd W lb. .39 - —
tanks, works lb. .18 - —
Hydrogen peroxide, 35%, dms., c.l., divd lb. .202 - —
dms., l.c.l., divd. lb. .211 - —
tanks, divd lb. .1800- —
Hydroquinone, photo grade, dms., 50-lbs. f.o.b works lb. 1.10 - —
Tech., dms., c.l., divd lb. .82½- —
dms. l.c.l. divd lb. .84½- —
Hydroquinone monomethyl ether, dms., t.l. divd lb 2.59 - —
dms., l.t.l., divd lb 2.61 - —
Hydroxyacetic acid, tech., 70% dms. Philadelphia and Chicago lb. .11 - —
tanks Belle W Va lb .073 —
Hydroxycitronellal, cns. lb. 5.70 - 6.00
Hydroxyethyl cellulose, all grades, fib dms. 20,000-lb lots or more, f.o.b shipping point lb. .84 - —
fib dms. 2,000 to 19,999-lb lots, same basis lb. .89 - —
fib dms. 100 to 1,999-lb lots, same basis lb. .93 - —
fib. dms., smaller lots, same basis lb 1.03 - —
Hyoscine salts (see Scopolamine)
Hyoscyamine hydrobromide, bots. oz. 7.75 8.50
Hyoscyamine sulfate, bots oz. 7.75 8.50
Hypophosphorous acid, purit., 50%, 10-cbys. f.o.b works lb 1.95 —
NF, 50% 10-cbys., same basis lb. 1.35 —

I

Ichthammol, NF, dms lb. .75 1.05
Indigo (see Dyes, coaltar, 1171 indigo, syn.)
Indole, CP, bots. lb. 13.75 -15.00
Inositol, 50-100 lb dms., 1,000 lbs or more, divd lb 4.50 —
Inositol, 50-lb. dms., less than 1,000 lb., divd lb 4.75 - —
10 lb cns., 10-50 lbs divd lb 5.00 - —
5 lb bots divd lb 5.25 —
Insect flowers (see Pyrethrum)
Iodine, crude, kgs. lb. 1.10 - —
Resub., USP, dms., f.o.b. works lb. 2.20 - 2.33

MONTROSE
CHEMICAL COMPANY
100 LISTER AVENUE
NEWARK, NEW JERSEY

Dimethyl Isophthalate

T.C.P.— Tricresyl Phosphate

Cresyl Diphenyl Phosphate

D.D.T.— Dichloro Diphenyl Trichloroethane

Ethyl Silicate 28% — 40%

Triphenyl Phosphate

Send for literature and samples

EXCLUSIVE SALES AGENT

R. W. Greeff & Co., Inc.

10 ROCKEFELLER PLAZA, NEW YORK 20, N. Y. • Circle 6-9680
1721 TRIBUNE TOWER, CHICAGO 11, ILLINOIS • WHitehall 4-6960

Iodochlorohydroquinolin, USP, dms. lb 3.60 - —
Iodoform, NF dms. 300-lbs., t.o.b. works lb 4.90 - —
dms., 100-lbs., same basis .. lb 5.05 - —
a-Ionone, cns. lb 4.80 5.75
b-Ionone, cns lb 4.15 6.15
Ipecac root, whole, bgs. lb. 8.00 - 8.50
Powd., bbls., bxs. lb. 9.50 -10.00
Irish moss, bleached, prime, bls lb. .25 .27
Iron blue, alkali-resisting, bbls., c.l., dlvd, E lb. .60 - —
bbls., l.c.l. ton lots, same basis. lb. .61 - —
bbls., smaller lots, same basis. lb. .62 - —
Dom., reg. bbls., c.l., dlvd, E lb. .55 - —
Iron blue, alkali-resisting dom., reg., bbls., c.l., ton lots, same basis lb. .56 - —
bbls. l.c.l. smaller lots same basis lb. .57 - —
Imp., British, reg. bbls. c.l. dlvd, E lb. .48 - —
bbls. l.c.l. ton lots, same basis lb. .49 - —
Iron blue, British, reg., bbls., l.c.l., smaller lots, same basis. lb. .50 - —
Iron blue, dlvd, prices tc nigher tor Pacific Coast states: Wash., Ore., Cal., N M., Ariz., Mont., Wyo., Utah, Col. and Nev.
Iron compounds (see Ferric or Ferrous)
Iron oxide, black, pure, bgs., c.l., works lb. .14¾- —
bgs. l.c.l., works lb. .15 —
Iron oxide, brown, pure, bgs., c.l., works lb. .14¼ —
bgs., l.c.l., works lb. .14½ —
Iron oxide, metallic, brown, bgs., works lb. .05½- —
Iron oxide, Persian Gulf, red., bgs., c.l., works lb. .08¾- —
Iron oxide, red, dom., pure, bgs., Bethlehem, E. St. Louis, New York City lb. .14¼- —
Iron oxide, red, nat., 75-85% ferric oxide, bgs., c.l., works lb. .05¼ —
bgs., l.c.l. works lb. .06½ —
Iron oxide, Spanish red, bbls., c.l., ex dock lb. .05¾ Nom.
bbls., l.c.l. ex dock lb. .06 Nom
bbls., l.c.l. ex whse. New York. lb. .06½ Nom.
Iron oxide, yellow, nat., French type, bgs., c.l., works lb. .06¾- .07
Peruvian type bgs. c.l. lb. .023 .024
Iron oxide, yellow, pure, light lemon shade bgs c.l. works lb. .12¼ —
other shades, same basis lb. .12 - .12½
Isoamyl alcohol, dms., c.l., works, frt. alld E lb. .27½- —
dms., l.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 —
Isoborneol, cns lb. 1.44 1.80
Isobornyl acetate, cns lb 46 56
Isobornyl formate, dms lb. 1.15 1.20
Isobornyl propionate, dms lb. 1.20 1.25
Isobutyl acetate, perfume grade, cns lb. .30 - .35
Isobutyl acetate, solvent grade, dms., c.l., dlvd E of Rockies lb. .15¼- —
dms., l.c.l., same basis lb. .16¾- —
tanks, same basis lb. .12¾- —
Isobutyl alcohol, dms., c.l., dlvd lb. .15½- —
dms., l.c.l., dlvd. lb. .17 - —
tanks, dlvd lb. .13 - —
Isobutylene, 99% tanks, works gal. .38 - —
Isobutyl isobutyrate, dms., f.o.b. works lb. .75 - —
Isobutyraldehyde, CP, dms., c.l., dlvd lb. .27½- —
dms., l.c.l., dlvd. lb. .28½- —
Tech., dms., c.l., dlvd. lb. .22 - —
dms., l.c.l., dlvd. lb. .23 - —
tanks, dlvd. lb. .19½- —
Isobutyric acid, dms. c.l., t.l., dlvd. lb. .35 - —
dms., l.c.l., t.l., same basis lb. .36½- —
t.c. t.t. same basis lb. .33 —
Isobutyronitrile, dms., c.l., dlvd. lb. .47½- —
dms., l.c.l., dlvd lb. .48½- —
tanks, dlvd. lb. .45 - —
Isoeugenol, cns. lb 3.40 4.25
Isoniazid, powd., bulk, 50 kilos kilo. 12.00 - —
Isonicotinic acid, 100-lb fib. dms., works lb. 4.25 - —
Isonicotinic acid hydrazide (see Isoniazid)
Iso-octyl alcohol, dms., c.l., dlvd. E. lb. .23½- —
dms., l.c.l., dlvd. E. lb. .25 - —
tanks, dlvd. E lb. .21 - —
Isopentane, coml. grade, tanks, f.o.b. Tex. refy gal. .16½- —
Isophorone, dms., c.l., dlvd lb. .24½- —
dms., l.c.l., dlvd lb. .25¼- —
tanks, dlvd. lb. .22½- —
Isophthalic acid, dms., c.l., works, frt. equald lb. .18 - .19
dms., l.c.l., same basis lb. .19 - .20
Isopropanol (see Isopropyl alcohol).
Isopropyl acetate, dms., c.l., dlvd. lb. .14 - —
dms., l.c.l., same basis lb. .15½- —
tanks, same basis lb. .11½- —
Isopropyl alcohol, refd., 91%, dms., c.l., dlvd gal. .58 - —
dms., l.c.l., dlvd. gal. .68 - —
tanks, dlvd. gal. .42 - —
Isopropyl alcohol, refd., 95%, c.l., dms., dlvd gal. .60 - —
dms., l.c.l., dlvd gal. .70 - —
tanks, dlvd. gal. .44 - —
Isopropyl alcohol, anhyd., c.l., dlvd. gal. .62 - —
dms., l.c.l., dlvd. gal. .72 - —
tanks, dlvd gal. .46 - —
Isopropyl benzene (see Cumene).
Isopropyl ether, dms., c.l., dlvd lb. .09½- —
dms., l.c.l., dlvd lb. .11 - —
tanks, dlvd lb. .07 - —
Isopropyl-N-(3-chlorophenyl) carbamate (CIPC) tech., dms., c.l. t.l., works lb. 1.00 - —
dms., l.c.l., works lb. 1.05 - 1.25
tanks, works lb. .99 - —
Isopropylamine (see Mono, Di, or Tri-).
Isopropyl-N-phenyl carbamate, 450-lb fib. dms., c.l., t.l., works lb. .75 - —
450-lb fib. dms., l.c.l., works lb. .80 .90
Isoquinoline, dms., works lb. .65 1.25
Itaconic acid, refd. bgs. c.l. t.o.b. works lb. .39½- —
bgs., l.c.l., same basis lb. .41 - .43
Tech., bgs., c.l., same basis lb. .34½- —
bgs., 500-lbs. same basis lb. .36 - —

J

J acid, paste, bbls., works, 100% basis lb 2.70 - —
Powd., bbls., same basis lb. 2.75 - —
Jalap root, NF, bls lb. .55 - .60
NF, powd., bbls., bxs lb. .65 - .70
Japan wax, cs lb. .29 .31
Juniper berries, bgs. lb 16 17
Juniper berry oil, NF, bots. lb. 2.90 - 3.75
Twice rectified, bots. lb. 3.25 —
Juniper tar oil, NF, dms. lb. .42 .60
Juniper wood oil, tech., cns. lb. .38 .55

K

Kaolin (see also Clay, China).
Kaolin, NF, powd., fib. dms. lb. .10 .12
NF, colloidal, 50-lb. bgs. lb. .15½- .17½
Karaya gum, No. 1, NF, powd., bbls lb. .48 - .50
No. 2, powd., bbls. lb. .43 - .45
No. 3, powd., bbls. lb. .37 .40
Koch acid, bbls., frt. alld., 100% basis lb. 1.00 —
Kola nuts, bgs. lb. .11 - .12

L

L acid, bbls., works lb. 1.25 - —
Lacquer diluent, petroleum, 140°F. 200°F b.r., tankcars, New Jersey and New York gal. .20 —
Group 3 gal. .15125- —
Houston, Texas gal. .16 —
Lacquer diluent, petroleum, 200°F-240°F b.r., tankcars, New Jersey or New York gal. .20 —
Group 3 gal. .14125- —
Houston, Texas gal. .16 —
Lactic acid, edible, 50%, bbls. dms., c.l., frt. equald lb. .1985- —
bbls., dms., 20 or more, frt. equald lb. .2033- —
bbls., dms., 5 to 19, frt. equald. lb. .2085- —
bbls. dms. 1 to 4, frt. equald. lb. .2135- —
Lactic acid, edible 80%, bbls., c.l., dms. frt. equald lb. .3335- —
bbls., dms. 20 or more, frt equald lb. .3385- —
Lactic acid edible, 80% bbls., dms., 5 to 19, frt. equald lb .3435- —
bbls. dms. 1 to 4, frt equald. lb. .3485- —
Plastic grade, 50%, c.l., bbls., works lb. .2740- —
bbls., 20 or more, works lb. .2790- —
bbls. 5 to 19, works lb. .2840- —
Lactic acid, plastic grade, 50%, c.l., bbls., 1 to 4, works lb. .2890- —
80%, bbls. c.l. works lb. .4625- —
bbls. 5 to 19, works lb. .4725- —
bbls. 1 to 4, works lb. .4775- —
Lactic acid, tech., 44%, bbls., c.l., works 100 lbs. 12.45 - —
bbls., l.c.l., works 100 lbs. 12.85 - —
USP, 85%, cbys. lb. .85 - —
Lactose, crystalline, edible, bgs., 23,000-lb. lots, frt equald lb. .14 - —
bgs., 6,000-lb lots, frt equald lb. .14½- —
bgs., 2,000-lb lots, frt equald lb. .14¾- —
bgs., 200-lb lots, frt equald lb. 15¼- —
Edible lactose in 6lb dms. ½c. higher.
Lactose, ferment, grade, bgs., c.l., works lb. .08¾- —
Lactose, USP, reg., fib. dms., 30,000-lb. lots, frt. equald lb. .21½- —
6lb. dms., 2,000-lb lots, frt. equald lb. .22¼- —
200-1,880-lb. lots, frt. equald lb. .22¾- —
USP lactose in bags ½c to 1c lower
Lactose, USP spray dried, bgs., t.l., frt. equald lb. .18½- —
bgs., l.t.l., frt equald lb .19 .19¾
Lady's slipper root, bls lb. 3.00 3.50
Lamp black, bgs., c.l., works lb. .16 .45
Lanolin, USP, anhyd., 400-lb dms., works lb. .24 .28
USP, annyd., cosmetic, 400-lb. dms., works lb. .26 .30
USP, hydrous, 400-lb dms. works lb. .20 - —
Lard, cash, dms., Chicago lb. .1365- —
Lard oil (see Grease oil).
Larkspur seed bgs. lb. .55 - —
Laurel leaf oil, dms. cns. lb 9.75 -12.50
Laurent's acid, bbls lb 70 —
Lauric acid, pure, dms. lb. .30¼- .32¾
bags lb. .28¾- .31¼
tanks lb. .27¾- —
Lauryl alcohol, bots lb 2.00 2.50
n-Lauryl methacrylate, dms., c.l., t.l. works lb .85½- —
dms. l.t.l., works lb 66 —
Lavandin oil, 22-24%, dms. lb. 1.15 - —
Abrial, dms. lb. 1.20 - —
Lavender flowers, medium, bls lb 55 60
Ord., bls lb 20 25
Select., bls lb .90 1.00
Lavender flower oil, USP, French, 35-37% ester, cns lb 1.85 4.00
40-42% ester cns lb 5.00 7.75
Spike, Spanish, cns lb. 1.75 - 2.00
Lead acetate, NF, cryst., gran., powd., bbls lb. .34½ - —
White, cryst., bbls. lb. 25½ —
gran., bbls. lb. 26½ —
powd, bbls lb. 26½ —
Lead arsenate acid powder, dealers, 3-50-lb bgs or any quantity frt alld on $150 or more lb 30¼ —
1-lb bgs same basis lb 47 —
Lead, blue, basic sulfate, bbls., c.l., shipt point, frt. alld lb .17 —
bbls., l.c.l. same basis lb .18 —

When the CUSTOMER is offered a BETTER PRODUCT!

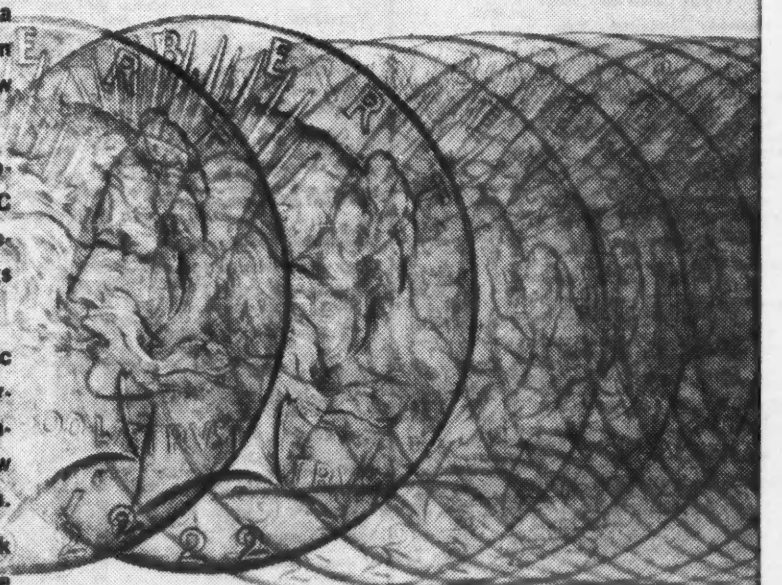
He profits more and so do you.

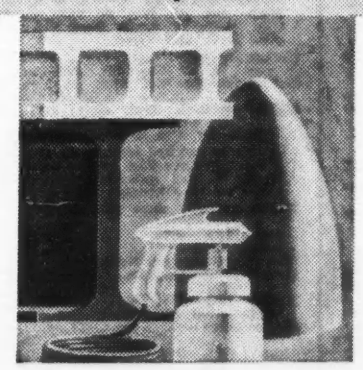
But to offer your customer a better product you must often switch to a new advanced raw material.

Oronite developed and produced the first ISOPHTHALIC ACID, the principal raw material in new polyester coatings and plastics.

Oronite also produces phthalic anhydride and maleic anhydride, other principal raw materials also used in these new coatings and plastics materials.

Possibly Oronite building-block chemicals could help make new, more profitable or money-saving products for you to use or market? Why not talk it over?





ORONITE

Where chemical raw materials are born and produced in volume

CALIFORNIA CHEMICAL COMPANY
ORONITE DIVISION

EXECUTIVE OFFICES • 200 Bush Street, San Francisco 20, California
SALES OFFICES • New York, Boston, Wilmington, Chicago, Cincinnati, Cleveland, Houston, Tulsa, Los Angeles, San Francisco, Seattle
FOREIGN AFFILIATE • California Chemical International, Inc., San Francisco, Geneva, Panama, Sao Paulo

Lead carbonate (see Lead, white, basic carbonate).
Lead chloride, dms ..... lb. .52 - —
Lead iodide NF V jars ..... lb 3.82 - —
Lead linoleate, fused, 26.5% Pb, dms, lb .38 - —
Lead metal, prime, pigs, New York, lb. .11 - —
St. Louis ..... lb. .1080- —
Lead monosilicate, bgs., c.l., works, frt equald lb. .1385- —
bgs., t.c.l., same basis lb .1485- —
Lead naphthenate, liq., 16% Pb., dms., dlvd lb. .19½- —
24% Pb, dms., dlvd lb. .24¼- —
Solid, 37% Pb., dms, dlvd lb .31¾- —
Lead nitrate, bbls lb .24¼ .26¾
Lead orthosilicate gel., 50-60% PbO, dms, works lb. .29¾ .34½
Lead peroxide tech powd., bbls lb. .45 - .50
Lead phthalate dibasic, dms, works, lb .41 - —
Lead, red, 95% Pb_3O_4 or less, bbls., c.l., works, frt equald, lb. .1375- —
bbls., t.c.l., same basis lb. .1475- —
Lead, red, 97% Pb_3O_4, bbls., c.l., same basis lb. .1375- —
bbls., t.c.l., same basis lb. .1475- —
Lead, red, 98% Pb_3O_4, bbls., c.l., same basis lb. .1410- —
bbls., t.c.l., same basis lb. .1510- —
Lead, resinate precip., 23%Pb dms., lb. .49 - —
Lead salicylate, normal dms, works lb 46 —
Lead silicate (see Lead white basic silicate).
Lead silicochromate, bgs., c.l., f.o.b mfrs point, frt alld lb 20 —
bgs. t.c.l. same basis lb 21 —
Lead sulfate (see Lead blue basic sulfate).
Lead tallate liq. 16% Pb. dms lb 17¼ —
24% Pb, dms ..... lb. .21¼- —
Solid 30% Pb. dms ..... lb. .26¾- —
Lead white, basic carbonate, bgs., c.l. shipt pt., frt alld lb. 18 —
bgs. t.c.l. same basis lb 19 —
basic silicate bgs. c.l., shipt pt. frt. alld lb. 16½ —
Lead white, basic silicate, bgs., c.l., shipt. pt., frt. alld lb. .17 - —
bgs., t.c.l., same basis ..... lb. .18 - —
Lecithin edible tech. bleached, non-ret dms., c.l., works, lb. .14 .15
non-ret dms., t.c.l., same basis lb. .15 .16
Lecithin, edible, tech., unbleached, non-ret dms. c.l. same basis lb. .13 .14
non-ret dms., t.c.l., same basis lb .14 .15
Lemon bioflavonoid complex, 50 kilos, f.o.b. works kilo.14.20 - —
Lemon oil, USP, Calif., cns, dms lb 1.25 1.50
Messina cns lb 3.25 4.00
Lemongrass oil, cns., dms lb 2.45 - 2.50
dl-Leucine, dms, 1 kilo, works kilo.50.00 - —
Licorice root gran bls lb 13 —
Powd bls lb 15 .16
Whole bls lb 09 .10
Lignaloe wood oil, Mexican cns lb 2.75 3.50
Lignosulfonate (see under Ammonium or Sodium lignin sulfonate)
Lilac oil lb 1,500.00
Lime chemical (quicklime), bulk, c.l. 50,000 lbs works, E ton.14.25 —
Chemical hydrated, bgs., c.l. same basis ton 17.25 —
spray bgs., c.l. same basis ton 18.25 —
For New York delivery add $6.29 freight charge
Lime oil, dist., Mexican, dms ..... lb. 5.00 - 5.60
West Indian, dms lb. 5.00 - 5.60
Expressed, West Indian, dms lb. 6.50 - 7.75
Lime salts (see Calcium)
Lime-ammonium nitrogen, 20.5% N (see Ammonium nitrate with dolomite).
Linalool ex bois de rose oil dms lb 2.45 4.25
Syn, 98-100% dms., works lb 2.40 2.75
Linalyl acetate ex bois de rose 90-92%, dms lb 2.65 4.50
96-98% dms lb 3.25 —
Syn., 98-100% dms., works lb 2.75 —
Lindane 25% formulation to distributors dms, frt alld lb. 1.35 1.50
Lindane tech., to formulators, 250-lb dms, 5,000 lbs, dlvd, lb 2.13 - —
100-lb dms., 5,000-lbs. dlvd lb 2.15 - —
250-lb dms, less than 5,000-lbs., dlvd lb 2.18 —
100-lb dms, less than 5,000-lbs. dlvd lb 2.20 —
Linden flowers, with leaves bls lb 35 .40
Without leaves bls lb 42 .45
Linseed meal, expeller, 32% bulk, Minneapolis, mills ton.61.50 - —
Extracted 34% bulk, same basis, ton.56.00 - —
Linseed oil, raw, dms., c.l., New York lb. .1670- —
dms., l.c.l., New York ..... lb. .1760- .1810
tanks, f.o.b. Minneapolis .... lb. .1310- —
tanks, New York ..... lb. .1422- —
tankwagon, New York ..... lb. .1472- —
Boiled linseed oil, .006c. per lb. higher.
Linseed oil acid, dist., dms ..... lb. .2030- —
Water white, dms ..... lb. .2330- —
Litharge, comi., powd., bbls., c.l., works, frt. equald lb. .1325- —
bbls., t.c.l., same basis lb. .1425- —
Lithium aluminum hydride, lump, dms., works lb.33.00 39.00
Lithium benzoate dms lb 1.65 1.67
Lithium bromide, NF, gran., bgs., works, frt equald lb 2.60 —
Lithium carbonate, NF, dms., ton lots lb. .58 - —
dms., 1,999 lbs. or less .... lb. .64 - —
Tech., dms., ton lots ..... lb. .57 - —
dms., 1,999 lbs. or less ... lb. .63 - —
Lithium chloride CP, anhyd., dms., ton lots lb 1.23½ - —
Tech, anhyd, dms., c.l., t.l., dlvd, or works frt alld lb. .87 —
dms, l.c.l. same basis lb .88 .92
Lithium citrate NF dms, ton lots, lb 1.50 —
Lithium fluoride dms., 20,000-lb. lots, dlvd lb. 1.75 - —
bbls., ton lots and more, dlvd lb. 1.85 - —
bbls., less ton lots, dlvd lb. 1.90 - —
Lithium hydride powd., dms., 500-lbs lots or more works lb 9.50 - —
Lithium hydroxide, monohydrate, dms., c.l., t.l., frt. alld lb. .60 - —
dms., l.c.l., frt. alld ..... lb. .64 - —
Lithium manganite dms, works lb .95 1.05
Lithium nitrate, tech., dms., 100-lb lots lb 1.15 1.25
Lithium salicylate dms. lb 1.60 1.70
Lithium silicate dms., works lb 1.10 1.20
Lithium stearate dms, c.l., works, lb. 47½ - —
dms, ton lots works lb. 48¼- —
dms., less-ton lots, works .. lb .53½- —

Lithium sulfate, dms., 100-lb. lots, lb. 1.15 1.25
Lithium titanate, dms., works lb. 1.15 1.25
Lithol red toner, barium, bbls., works lb. 1.03 - —
Lithol-rubine red toner, pure, bbls., works lb. 1.65 - —
Resinated, bbls., works ..... lb. 1.47 - —
Lithopone, ord, bgs, c.l., dlvd E, lb. .08⅜- —
bgs., t.c.l., dlvd, E lb. .09½- —
Titanated (high-strength), bgs., c.l., dlvd lb. .11 —
bgs., t.c.l., dlvd ..... lb. .12 - —
Lobelia herb, bls ..... lb. .95 - 1.10
Lobeline sulfate, bots., 50-oz. lots, works oz.30.00 —
Locust bean gum, powd., bgs. lb. .35 .40
Lycododium, cs. ..... lb. 2.50 - 3.00
l-Lysine monohydrochloride, 25-lb. dms lb. 4.95 - —

M

Mace, Siauw, No. 1, bls. ..... lb. 1.58 - —
No. 2, whole, bls ..... lb. 1.40 - —
siftings, bls ..... lb. 1.35 - —
Mace oil, dist., cns., dms ..... lb 9.00 11.00
Magnesia, calcined, tech, bgs., c.l., frt equald lb. .25¾ .26½
Tech., syn., rubber grade, light, bgs., c.l., frt. equald lb .28¾ .30
rubber grade, extra light, bgs., c.l. frt equald lb. .28 —
bgs., t.c.l., frt equald lb .28¾ —
Above prices are quoted f.o.b. works, freight equald., with Metropolitan New York and competitive producing points
Magnesia, calcined, tech., heavy, 85% bgs. c.l. f.o.b. Canning, Nev ton 39.50 —
91%, bgs., c.l., same basis ton 49.50 —
95%, bgs., c.l. same basis ton 59.00 —
USP, light, bgs. ..... lb 36½- .37½
USP, heavy, bgs lb .36½ .37½
Magnesite, chemical grade, calcined, powd., bgs. c.l., works, frt equald ton 86.25 - —
Chemical grade, deadburnt, standard grain bulk, c.l. Chawelah Wash ton 46.00 - —
Magnesium bromide, 80-lb. dm., f.o.b. works lb. 1.15 - —
Magnesium carbonate, tech, bgs. c.l., frt equald lb .11 —
bgs., t.l., frt equald lb. 11½ —
bgs., l.c.l. frt equald lb. 13½ .14
Magnesium carbonate USP, bgs., c.l. frt equald lb. .13½ —
bgs., t.l., frt equald lb .14 —
bgs., l.c.l. frt equald lb .15 .16
Above prices are quoted f.o.b. works, freight equald., with Metropolitan New York and competitive producing points.
Magnesium chloride, anhyd, 92%, flake or pebble, drums, c.l. works lb. 12¾- —
dms., t.c.l., works lb 14 15
Magnesium chloride hydrous, 99% flake, bgs., c.l., works ton.60.00 —
bgs., l.c.l., works ton.75.00 -100.00
Magnesium gluconate, 100-lb dm, f.o.b works E lb 1.42 —
Magnesium hydroxide, NF powd., dms., 500-lbs or more, f.o.b works lb. .24½ 25½
Magnesium lauryl sulfate dms., c.l., frt alld lb. .22½ —
dms., t.t.l., frt alld lb. .23½ —
tanks, frt alld lb. .21½- —
Magnesium metal, 99.8%, ingots, 10,000-lb. lots or more, works lb .36 —
pigs, 10,000-lb. lots or more, works lb. .35¼- —
sticks, cs., works, frt alld on carlots lb .59 —
Magnesium nitrate, cryst., dms., works lb 29 - —
Magnesium oxide (see Magnesia calcined).
Magnesium phosphate, tribasic, NF, bbls lb. .75 - —
Magnesium silicate (see Talc)
Magnesium silicofluoride, dms., works lb .10½- .12
Magnesium sulfate, tech., bgs., c.l., works 100 lbs. 2.15 —
bgs, t.c.l., works 100 lbs 2.90 3.15
USP, cryst., bgs, c.l., works, 100 lbs. 2.35 - —
bgs., t.c.l., 5,000 lbs., 1 withdrawal 100 lbs 3.10 - —
bgs., smaller lots 100 lbs 3.35 - —
Magnesium trisilicate, USP, 6b dms., 5,000-lb. lots lb .38 - —
fib dms., 1,000-lb lots ..... lb. 40 - —
fib dms., 100-lb lots ..... lb. .45 - —
Bulky and super grades of magnesium trisilicate 7c per lb. higher.
Malachite green, straight, PTA, bbls., works lb 5.30 - —
Malathion, dms., c.l., works lb. .89 —
dms., l.c.l., works lb. .92 1.01
Maleic acid, cryst., powd, dms lb. .37¼ —
Maleic anhydride, dms c.l. frt. equald lb. .24 —
dms., t.c.l., frt, equald lb. 25½- —
tanks, frt equald lb 22½ —
Maleic anhydride in bags ½c. per lb less.
Malic acid, tech., dms lb .50 —
Mandelic acid, NF dms., 1,000-lb lots lb 2.35 —
dms., smaller lots lb 2.40 2.50
Mandrake root, bls ..... lb. .45 - —
Manganese acetate, dms., dlvd lb. .35 —
Manganese borate, tech., fib. dms. lb. .23½- —
Manganese carbonate, chemical grade, 46% Mn, bgs., 20,000-lb lots and more, works lb. .11 .16
Manganese chloride, CP, anhyd., dms., 20,000-lb lots, works lb. 21¾ —
smaller lots, works lb. .23½- —
Manganese dioxide, African, 83-87%, 40,000 to 99,999-lb lots, burlap paper lined bgs., gross for net works ton.146.00 —
40,000 to 99,999-lb lots, paper bgs., same basis ton 144.50 —
40,000 to 99,999-lb lots, dms same basis ton.152.50 - —
Prices for manganese dioxide in 10,000 to 40,000-lb lots $3 per ton higher.
Manganese gluconate, dms lb 1.84 - —
Manganese hydrate, dms., dlvd lb .35 - —
Manganese hypophosphite, NF dms. lb. 3.52 —
Manganese linoleate, liq. 4.35% Mn, dms lb. .35¾- —
Solid, precip., 8.2% Mn bbls lb. 41¼ —
Manganese metal, electrolytic, dms., c.l., dlvd, E lb. .34½- —
dms., ton lots, dlvd E lb. .37 - —
dms., smaller lots, dlvd E lb. .39 - —

Manganese naphthenate, liq., 6% Mn, dms., frt. alld lb. .29¾- —
Manganese resinate, fused, 3½% Mn dms lb .29¼- —
Precip., 6½-7% Mn, dms. ... lb. .42 - —
Manganese sulfate, fertilizer grade, 65% $MnSO_4$, bgs., c.l., dlvd, S., E ton.86.50 - —
bgs, t.c.l. dlvd, S., E ton.93.50 - —
Manganese tallate 6% dms. ... lb. .26½- —
Manila copal gum, C, bgs ..... lb. .35 .39
DBB bgs ..... lb. .25 .28
DK, dust, bgs. ..... lb. .14 Nom.
MA, soft, bgs. ..... lb. .20 .24
WS, bgs ..... lb. No stocks.
Mannitol, com'l fib dms., ton lots, works lb. .60 - —
fib. dms., to ton lots, works lb. .62 - —
fib. dms., single dm., works lb. .65 - —
Marine pitch, dms ..... lb. .04¼- .05
MBTS (see Mercaptobenzothiazyl disulfide).
MBT (see 2-Mercaptobenzothiazole).
Melamine, bgs., c.l., works .... lb. .26½- —
bgs., l.c.l., works ..... lb. .28 - —
Menadione, USP bots. ..... gram. .044 .05
Menhaden oil, crude, tanks, works, all ..... lb. .06½- —
Menthol, nat. USP, Brazilian, large crystals, cs). 8.40 - —
Nat., USP, Brazilian, regular crystals, cs). 8.25 - —
Japanese cs. ..... lb.10.50 -12.00
Syn., USP, racemic, 25-lb. lots lb. 4.25 - —
2-Mercaptobenzothiazole, bgs., fib. dms., ton lots, works, frt. alld lb. .44 - —
bgs. fib. dms. less ton lots, same basis). .46 - —
Mercaptobenzothiazyl disulfide, bgs., fib dms., ton lots, works, frt. alld lb. .54 - —
bgs. fib dms. less ton lots, same basis lb. .56 - —
Mercuric chloride, NF, cryst. dms., 100 lbs., f.o.b works lb 4.03 - —
USP gran or powd., 50-lb dm., 100 lbs. f.o.b works lb 3.78 - —
Mercuric cyanide, NF VIII powd., fib dms lb 5.84 - —
Mercuric iodide red, NF 100-lb. dm. f.o.b works lb 6.97 - —
Mercuric oxide red, NF IX 50-lb dm 100 lbs. f.o.b works, lb 4.72 - —
tech, 50-lb dm. 100 lbs, same basis lb 4.52 - —
Mercuric oxide yellow, NF 50-lb. dm 100 lbs. same basis, lb 4.89 - —
tech., dms. 100 lbs lb 4.35 - —
25-lb fib dm ..... lb 4.38 - —
Mercurous chloride (see Calomel)
Mercurous iodide yellow, NF 100-lb. dm f.o.b works lb. 8.22 - —
Mercury, ammoniated (see White precipitate USP XV)
Mercury metal 76 lbs per flask, net-flask.208.00 -211.00
Mesityl oxide dms, c.l., dlvd lb 15 —
dms, t.c.l., dlvd ..... lb. 16½ —
tanks, dlvd ..... lb 12½- —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Chloroaniline).
Metanilic acid dms, works lb 57 .75
Metanitroparatoluidine (see m-Nitro-toluidine)
Metanitroaniline (see m-Nitroaniline)
Metaphenylenediamine (see m-Phenylenediamine)
Metatoluidine (see m-Toluidine)
Metatolylenediamine (see 2,4-Tolylenediamine).
Methacrylic acid glacial 98%, dms, truckloads frt equald lb .42½ —
dms, smaller lots frt equald, lb. .43 .75
tanks works frt equald lb. 40 —
Methanol, nat, denaturing grade, tanks frt alld gal. .85 —
Syn, zone 1, dms, c.l., or t.l. min. dlvd gal. .51½ —
dms, t.c.l., dlvd gal. .61½- —
tankwagon, 2,000-4,000 gal. lots, dlvd Metropolitan area gal. .35 - —
tankwagon, 4,000 gal min., dlvd gal. .30 - —
tankwagon, 4,000 gal min., f.o.b terminal gal. .29 - —
Methanol, syn, zone 2, dms, c.l., or t.l., min frt alld or dlvd, gal. .55½- —
dms, t.c.l., works gal. .65½- —
tankwagon, 2,000-4,000 gal. lots, min., dlvd., Metropolitan area gal. .39 - —
tanks, 4,000 gal min., dlvd, gal .34 —
Synthetic methanol zones are: Zone 1 is all continental US E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of US west of above state boundaries comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash
Methapyrilene fumarate, 100-999 lbs., dms., f.o.b works, frt. equald lb.21.75 - —
Methapyrilene hydrochloride, 100-999 lbs. dms., f.o.b. works, frt equald lb.27.25 —
Methenamine (see Hexamethylene-tetramine).
Methionine, hydroxyanalogue, (calcium salt) 90% min., dms, t.l. frt alld lb 1.10 - —
dms., t.t.l., same basis lb 1.16 - —
dl-Methionine, fib dms., frt alld., 50-lb or more lb 3.50 - —
Feed grade 98% fib dms, same basis lb. 1.43 - —
Methoxychlor 50% wettable powder, dealers dms. cs lb. .66 —
Methyl abietate, non-ret dms., c.l., dlvd zone 1 lb. .21½- —
non-ret dms, t.c.l. same basis lb. .22 .22½
Methyl abietate, hydrogenated, non-ret dms., c.l., dlvd zone 1 lb. .23½- —
non-ret dms, t.c.l., same basis, lb 24 24½
Zone 1 includes New England, and Middle Atlantic states, Va., W. Va., N. C., Ohio Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn
Methyl acetone, nat, dms., t.c.l., E of Miss. frt alld gal. 62½- —
Methyl acetone, syn, dms, c.l. frt, alld E gal. .66 - —
Methyl acetone, syn., dms., t.c.l., frt. alld. E gal. .76 - —
tanks frt alld E gal 51 —
Synthetic methyl acetone E. territory comprises all states East of and including Colo., Mont., N. Mex. and Wyo. West territory is made up of all states west of those four.
Methyl acrylate, dms, c.l., t.l., dlvd, lb. .35½- —
dms., t.t.l., dlvd ..... lb. .36½- —
tanks, dlvd, ... lb. .32½- —
Methyl alcohol (see Methanol).
Methyl amyl acetate, dms., c.l., dlvd, E lb. .17 —
dms., t.c.l., dlvd E. lb. .18½- —
tanks, dlvd E lb. .14½- —
Methyl amyl alcohol, dms., c.l., dlvd, lb. .17 —
dms., t.c.l., dlvd. lb. .18½- —
tanks, dlvd lb. .14½- —
Methyl amyl ketone, dms., c.l., t.l., f.o.b. works lb. 1.99¼- —
dms., l.c.l., same basis ..... lb. 2.00 - —

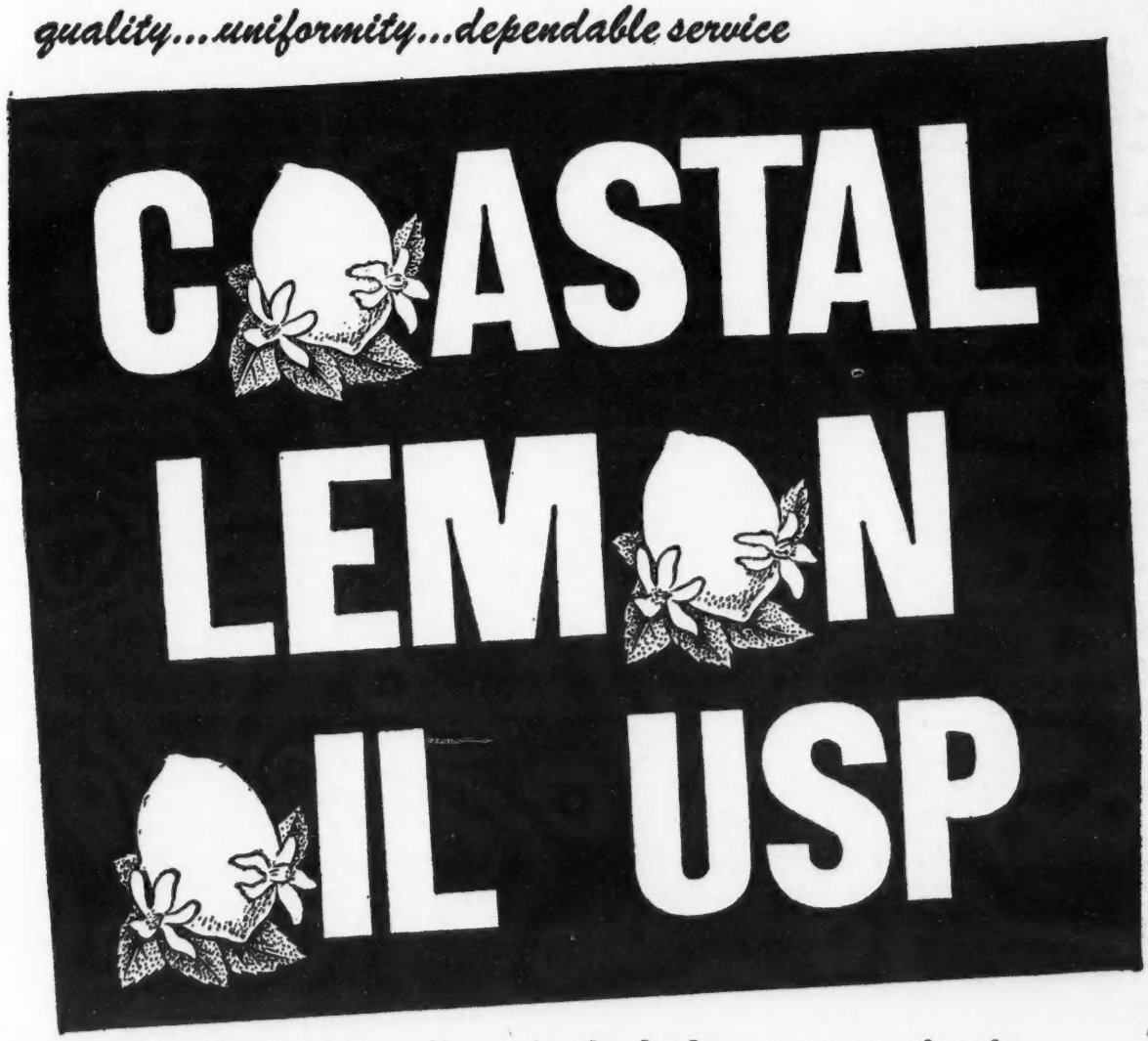
N-Methylaniline, tech., tanks, frt. alld. lb. .60 - —
Methylanthranilate, cns. ..... lb. 2.25 - 2.45
Methyl benzoate, cns., dms. ... lb. .60 - .75
Methyl bromide, service organization prices, 40 to 375-lb. cyls., large lots, frt. alld lb. .62 - .72
on 100 lbs lb. .73 - .79
Methyl cellulose, special vis., (1,500-4,000 cps.) 50-lb. bgs., c.l., works lb. .62 - —
50-lb. bgs., 2,000-lb. lots and more, same basis lb. .89 - —
50-lb bgs., smaller lots, frt. alld on 100 lbs lb. 1.05 - —
Methyl cellulose, standard vis. (15,-400 cps.) 50-lb. bgs., c.l., frt. alld lb. .69 - —
50-lb. bgs. 2,000-lb. lots and more, same basis lb. .76 - —
50-lb. bgs., smaller lots, frt. alld.
Methyl chloride, indust., cyls., frt. equald lb. .22¼- —
tanks, multi-unit, same basis, lb. .16¼- —
tanks, single unit, same basis, lb. .12¾- —
Methyl chloride, refrigerator mfrs., cyls., dlvd lb. .48¾- —
Other consumers or service men, cyls., dlvd lb. .67¾ —
Methyl chloroform (see 1,1,1-Trichloroethane).
Methyl cinnamate, cns lb. 1.55 1.80
Methyl ethyl ketone, dms., c.l., dlvd lb. .15 —
dms., t.c.l., dlvd ..... lb. .16½- —
tanks, dlvd. ..... lb. .12½- —
2-Methyl-5-ethyl pyridine, dms., c.l., works lb. .45 —
dms., t.c.l., works ..... lb. .45¾- —
tanks, works ..... lb. .43 —
Methyl formate, refd., dms lb. .35 .40
Tech., non-ret dms., any quantity, works lb. .10 - —
tanks, works lb. .07 - —
a-D Methyl glucoside, tech., 100-lb. multiwall paper bgs., c.l., works lb. .24 - —
100-lb. multiwall paper bgs., t.l., min 23,000 lbs. works, lb. .25 - —
100-lb multiwall paper bgs., t.t.l, works lb. .26 - —
Methyl heptin carbonate, bots lb.27.75 -31.00
Methyl p-hydroxybenzoate, fib dms. lb. 1.90 2.00
Methyl ionone, standard, cns., dms. lb. 3.40 3.85
Methyl isoamyl ketone, dms., c.l., dlvd lb. .20 —
dms., t.c.l., dlvd. ..... lb. .20½- —
tanks, dlvd ..... lb. .17½- —
Methyl isobutyl carbinol (see Methyl amyl alcohol).
Methyl isobutyl ketone, dms., c.l., dlvd lb. .17 —
dms., t.c.l., dlvd ..... lb. .18½- —
tanks, dlvd ..... lb. .14½- —
Methyl methacrylate, dms., c.l., t.l., frt equald, with Belle, W Va lb. .31 - —
dms., smaller lots, same basis lb. .31½- —
tanks, same basis lb. .29 —
Methyl naphthyl ketone, cryst., cns lb. 2.45 4.30
Methyl parahydroxybenzoate (see p-Hydroxybenzoate)
Methyl parathion, tech., 80%, dms., frt. alld. E lb. .84 - —
Methyl parathion prices 2c. per lb. higher in West
Methyl roseaniline chloride, NF., 5-lb fib. dms lb. 6.90 - —
Methyl salicylate, dms., t.l., frt. alld lb. .60¼- —
dms., t.c.l., same basis lb. .62½- 67¼
Methyl testosterone, USP, 100-gram. bots gram. No Prices.
2-Methyl-5-vinyl pyridine, 40-dm lots or more, f.o.b. works lb. 1.32 - —
5-39 dm lots, same basis ..... lb. 1.37 - —
tanks, same basis ..... lb. 1.27 - —
Methyl violet toner, molybdated, PMA bbls., dlvd, E of Rockies lb. 2.95 - —
Tungstated, PTMA, bbls., same basis lb 4.35 - —
Methyl violet prices 1c higher W of Rockies
Methylene blue, fib. dms., 100-lb. lots, frt. adjusted lb. 4.67 - —
Methylene chloride tech., straight or assorted, dms, c.l. or t.l., dlvd lb. .12½- —
dms, t.c.l., t.t.l. dlvd lb. .15¾- —
tanks, 4,000-gal. min., dlvd lb. .11¼- —
b-Methylnaphthalene, 32°C., m.p., dms., works lb .90 —
Methylpentanediol (see Hexylene glycol).
Methylphenylpyrazolone (see 1-phenyl-3-methyl-pyrazolone-5)
Methylthionine chloride (see Methylene blue).
Mica, dry-grd, paint, plastic, 100 mesh, bgs, c.l., works lb. .04 —
roofing, 20 to 80 mesh, works lb. .03 - —
wet-grd., biotite, bgs., c.l., works, frt alld.E lb. .06½- —
bgs, t.c.l. ex-whse. lb. .07¼- —
paint or lacq., bgs., c.l., 325 mesh, works, frt. alld E, lb. .08¼- —
bgs, t.c.l. ex-whse or freight alld E lb. .09 —
Mica, wet-grd., rubber, bgs., c.l., works, frt. alld E lb. .08 —
bgs, t.c.l. ex-whse. or frt. alld E lb. .08¾- —
wallpaper, bgs., c.l., works, frt. alld.E lb. .08¾- —
bgs., ex-whse or frt. alld E. lb. .09 —
white, 5-10 microns, bgs., c.l., works, frt alld E. lb. .08¼ —
Mica, wet-grd W. of Miss. ½c. higher; W. of Rockies 1c higher
Microcrystalline wax, petroleum, coating grades, tankcars, works lb. .10 .11
laminating grades, tankcars, works lb. .11 .12
Mineral black, bgs, works lb. .0160- .0673
Mineral oil, white tech, 50-65 vis., non-ret dms., c.l., f.o.b. refy gal. .65 —
50-65 vis non-ret dms., t.c.l., basis gal. .70 —
tankcars refy gal. .49 —
Mineral oil white tech, 65-75 vis., non-ret dms., c.l., same basis gal. .65 —
non-ret dms., t.c.l., same basis gal. .70 —
tankcars, refy gal. .49 —
NF, 80-90% vis. non-ret. dms., c.l., same basis gal. .66 —
non-ret dms, t.c.l., same basis gal. .71 —
tankcars refy gal. .50 —
Mineral oil, white, NF, 135-138 vis., non-ret, dms., c.l., same basis gal. .72 - —
Mineral oil, white, NF, 135-138 vis., non-ret dms., t.c.l., same basis gal. .77 - —
tankcars, refy gal. .56 - —
Mineral oil, white, NF, 145-155 vis., 5 non-ret, dms., c.l., same basis gal. .78 - —
non-ret dms., t.c.l., same basis gal. .83 - —
tankcars, refy. ..... gal. .63 - —

Mineral oil, white, USP, 180-190 vis., non-ret. dms., c.l., same basis	gal.	.80½	—
non-ret. dms., l.c.l., same basis	gal.	.85½	—
tankcars, refy.	gal.	.64½	—
Mineral oil, white, USP, 200-210 vis., non-ret. dms., c.l., f.o.b. refy.	gal.	.82½	—
non-ret. dms., l.c.l.	gal.	.87½	—
tankcars, refy	gal.	.66½	—
Mineral oil, white, USP, 340-350 vis., non-ret. dms., c.l., f.o.b. refy.	gal.	.87½	—
non-ret. dms., l.c.l.	gal.	92½	—
tankcars, refy.	gal.	.71½	—
(For f.o.b N. Y. add 2c. for tankcars; 2c. for c.l., and 3c. for l.c.l. non-ret. dms.).			
Mineral orange, American, bbls., c.l., works	lb.	.16	—
bbls., l.c.l., same basis	lb.	.17	—
Mineral spirits, petroleum, odorless, tankcars, New Jersey	gal.	.29	—
New York	gal.	.303	—
Houston, Texas	gal.	.25	—
regular, tankcars, New Jersey and New York	gal.	.18	—
Group 3	gal.	.12875	—
Houston, Texas	gal.	.145	—
Mineral spirits, 140 F, flash, New York, New Jersey at terminal	gal.	.205	—
Houston, Texas	gal.	.17	—
Mink oil, dms	lb.	2.75	—
Mirbane oil (see Nitrobenzene).			
MNPT maroon toner kgs., c.l., works	lb.	6.30	—
Molasses, blackstrap, feed grade, tanks, New Orleans	gal.	.13	.13¼
tanks, New York	gal.	15½	.16
Molybdated orange, bbls.	lb.	.49	—
Molybdenum metal, powd., 80 or 200 mesh, ctns., works	kilo.	7.84	—
325 mesh, ctns., works	kilo.	9.13	—
Molybdenum trioxide, purif., dms., works	lb.	1.15	—
Tech., chemical, dms., works, basis Mo content	lb.	1.48	—
Tech., metallurgical, dms., works, basis Mo. content	lb.	1.47	—
Molybdic acid, 85%, dms., works.	lb.	1.05	1.15
Monoallylamine, dms., c.l., dlvd	lb.	.965	—
dms., c.l., dlvd.	lb.	.995	—
tanks, dlvd	lb.	.96	—
Monobutylamine, dms., c.l., dlvd. E. of Rockies	lb.	.57½	—
dms., l.c.l., same basis	lb.	.59	—
tanks, same basis	lb.	.55	—
Mono-tert-butyl-m-cresol, dms., c.l., works	lb.	.53	—
dms., l.c.l., works	lb.	.56	—
tanks, works	lb.	.54	—
Monochloracetic acid, purif. (see Chloroacetic acid, mono).			
Monochlorobenzene, dms., c.l., frt. alld. or dlvd. E	lb.	.10½	—
dms., l.c.l., same basis	lb.	.11½	—
tanks, same basis	lb.	.08¾	—
Monochlorobenzene prices in the West 1¾c. higher.			
Monoethanolamine, dms., c.l., dlvd. E	lb.	.27½	—
dms., l.c.l., same basis	lb.	.29	—
tanks, same basis	lb.	.25	—
Monoethylalphanaphthylamine (see n-Ethyl-a-naphthylamine).			
Monoethylamine, 70% aqueous, solution, dms., c.l., dlvd. E, 100% basis	lb.	.38½	—
dms., l.c.l., dlvd. E., 100% basis.	lb.	.40	—
tanks, dlvd. E., 100% basis	lb.	.35	—
Monoethylaniline (see N-Ethylaniline).			
Monoethylorthotoluidine (see N-Ethyl-o-toluidine).			
Monoisopropanolamine, dms., c.l., dlvd. E	lb.	.27½	—
dms., l.c.l., same basis	lb.	.29	—
tanks, same basis	lb.	.25	—
Monoisopropylamine, anhyd., dms., c.l., dlvd	lb.	.33½	—
dms., l.c.l., same basis	lb.	.35	—
tanks, same basis	lb.	.31	—
Monomethylamine, anhyd., cyls., l.c.l., frt. equald., 100% basis	lb.	.30	—
tanks, 100% basis	lb.	.26	—
30-35% soln., dms., c.l., frt. equald., 100% basis	lb.	.36	—
Monomethylamine, 30-35% soln., dms., l.c.l., frt. equald, 100% basis	lb.	.36½	—
tanks, frt. equald., 100% basis.	lb.	.26	—
40% soln., dms., frt. equald., 100% basis	lb.	.33	—
dms., l.c.l., frt. equald., 100% basis	lb.	.33½	—
tanks, frt. equald, 100% basis.	lb.	.26	—
Monopentaerythritol, tech., bgs., c.l., dlvd. E	lb.	.31	—
bgs., l.c.l., dlvd. E	lb.	.32	—
Monopotassium glutamate, dms., 1,000-lb. lots, frt. alld	lb.	3.05	—
dms., 100-lb lots, same basis	lb.	3.25	—
Monosodium glutamate, dms., dlvd.	lb.	1.07	1.15
Monosodium phosphate (see sodium phosphate, monobasic).			
Montan wax, Calif., refd., bgs.	lb.	.27	.28
Imp., crude, Bohemian, bgs.	lb.	.25	.26
German, bgs.	lb.	.25	.26
Morphine, cns., 100-oz., f.o.b. works.	oz.	12.35	—
Morphine hydrobromide, cns., 100-oz., f.o.b. works	oz.	9.90	—
Morphine hydrochloride, NF, cns., 100-oz., f.o.b. works	oz.	9.90	—
Morphine sulfate, USP, cns., 100-oz., f.o.b works	oz.	9.90	—
Morpholine, dms., c.l., dlvd. E	lb.	.55¼	—
dms., l.c.l., dlvd. E	lb.	.56¾	—
tanks, dlvd. E	lb.	.52¾	—
Muriatic acid (see Hydrochloric acid).			
Musk, syn., ambrette, fib. dms., 100-lb. lots	lb.	4.40	4.90
cns., 25-lb lots	lb.	4.50	5.00
Ketone, fib. dms., 100-lb. lots	lb.	4.60	5.10
cns., 25-lb. lots	lb.	4.70	5.20
Xylol, fib. dms., 100-lb. lots	lb.	1.26	—
cns., 25-lb lots	lb.	1.40	—
Mustard seed, Danish, yellow, bgs.	lb.	.10	—
Montana, yellow, bgs.	lb.	.10½	—
Oriental, bgs.	lb.	.09	—
Mustard, oil, syn., bots.	lb.	1.60	1.85
Myristic acid, bgs.	lb.	.23¼	.25¼
tanks	lb.	.22¼	—
Myrrh gum, cs.	lb.	.65	.75

N

Naphtha, high solvency (see Solvent naphtha, petroleum).			
Naphtha, petroleum, cleaner's (see Cleaner's naphtha).			
Naphtha, VM&P, petroleum, tankcars, New Jersey and New York	gal.	.19	—
Group 3	gal.	.13875	—
Houston, Texas	gal.	.155	—
Naphthalene, crude, dom., 78°, tanks, frt. equald	lb.	.06¼	.07
imp., 78°, bgs., large lots	lb.	.09½	Nom.
Refd., indust., chipped, crushed, bgs., frt. equald	lb.	.13½	—
tanks, same basis	lb.	.10¾	—
Naphthalene, refd., indust., balls, flakes, wholesalers, jobbers, bbls., c.l., same basis	lb.	.15¼	—
es., 50 lbs., c.l., same basis	lb.	.15¾	—
1-lb. pkgs., c.l., same basis	lb.	.18½	—
a-Naphthol, dms., frt. alld	lb.	1.02	—
b-Naphthol, tech., flake, bbls., c.l., works	lb.	.34	—
bbls., l.c.l., works	lb.	.36	—
Naphthol, ITR, red toner, bbls., works	lb.	5.00	—
1-Naphthol-3,6-disulfonic 8-amino acid (see H acid).			
1-Naphthol-4 sulfonic acid (see Nevile and Winther's acid)			
1-Naphthol-5-sulfonic acid (see L acid).			
1-Naphthol-5-sulfonic 8-amino acid (see S acid).			
2-Naphthol-6,8-disulfonic acid (see Gamma acid).			
Naphthol sulfonic mixed acid (see Cleve's acid).			
a-Naphthylamine, dms., frt. alld	lb.	.52	—
b-Naphthylamine, tech., flake, bbls., works	lb.	1.60	—
1-Naphthylamine-3-sulfonic acid (see Laurent's acid).			
2-Naphthylamine-4,8-disulfonic acid (see Cassella acid).			
2-Naphthylamine-1-sulfonic acid (see Tobias acid).			
2-Naphthylamine-6-sulfonic acid (see Broenner's acid).			
2-Naphthylamine-7-sulfonic acid (see F acid).			
Naringin, fib. dms.	lb.	8.50	—
Neatsfoot oil, 15° cold test, dms	lb.	.29	Nom.
20° cold test, dms.	lb.	.28	Nom.
30° cold test, dms.	lb.	.27	Nom.
Neocinchophen, USP, dms., frt. adjusted	lb.	7.00	8.00
Neomycin sulfate, fib. dms., 1-kilo basis activity	gram.	.25	—
fib. dms., 100-999-gram lots, basis activity	gram.	.30	—
Tech., fib. dms.	gram.	.13½	—
Neopentylglycol, dms., c.l., dlvd	lb.	.32	—
dms., l.c.l., same basis	lb.	.33	—
Nerol, dms.	lb.	4.75	—
Neroli oil, NF, French, bots.	lb.	425.00	575.00
Tunisian, bots.	lb.	400.00	—
Nerolin, cns.	lb.	2.45	2.85
Neville and Winther's acid, dms., frt. alld	lb.	1.40	—
Niacinamide (see Nicotinamide).			
Nickel acetate, bbls., dlvd.	lb.	.68½	.73½
Nickel carbonate, bbls., dlvd.	lb.	78¼	.85¼
Nickel chloride, bbls., dlvd.	lb.	.37	.45
Nickel formate, bbls., ton lots, frt. alld	lb.	.72	.73
Nickel metal, electro cathodes, cs., works	lb	.74	—
Nickel nitrate, dms., frt. alld.	lb.	.31½	.33½
Nickel oxide, black, bbls.	lb.	.85	—
Green, bbls.	lb.	.84	—
Nickel sulfate, bgs., c.l., dlvd.	lb.	.28	—
bgs., l.c.l., dlvd.	lb.	.28½	.36
Nicotinamide, USP, 50-kilo, dms., 100 kilos., dlvd	kilo.	5.75	6.50
dms., less than 100 kilos, dlvd.	kilo.	6.25	7.00
Nicotinamide hydrochloride, 50-kilo dms., dlvd.	kilo.	6.50	7.50
Nicotine sulfate 40%, dealers, 50-lb. dms frt alld	lb.	1.20	—
40%, manufacturers, 500-lb. dms., frt. alld	lb.	1.03	—
Nicotinic amide, USP (see Nicotinamide).			
Niger seed, bgs.	lb.	.10½	—
Nikethamide, cbys.	lb	5.00	—
Nitric acid, 36° Be., cbys., c.l., works E 100 lbs		5.75	—
cbys., l.c.l., works E 100 lbs		6.05	6.85
38° Be., cbys., c.l., works E. 100 lbs		6.25	—
cbys., l.c.l., works E 100 lbs		6.55	7.35
40° Be., cbys., c.l., works E. 100 lbs		6.75	—
cbys., l.c.l., works E 100 lbs.		7.05	7.85
42° Be., cbys., c.l., works E. 100 lbs.		7.25	—
cbys., l.c.l., works E 100 lbs.		7.55	8.35
58.5 to 68%, HNO_3, tanks, works, 100% basis 100 lbs.		3.90	—
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs		4.90	—
Nitric acid, CP, NF, consumer, cbys., extra, c.l., works	lb.	.18½	—
cbys. extra, l.c.l. works	lb.	.20	—
5-pint bots., extra, cs., c.l., same basis	lb.	.22½	—
5-pint bots., extra, cs., l.c.l., same basis	lb.	.24	.25
dms., frt alld	lb.	.99	—
4-Nitro-2-aminophenol, tech., paste, dms., l.c.l., works	lb.	.84	—
m-Nitroaniline, cryst., dms., frt. alld	lb	1.15	—
Paste, dms., frt. alld., 100% basis.		1.10	—

quality...uniformity...dependable service



PURE California cold pressed lemon oil produced under continuous scientific quality control . . . bulk blended for uniformity, from desert and coastal grown lemons . . . packaged in tamper-proof containers for your protection . . . and priced to save you money. Our research and laboratory facilities have helped many users with product improvement and cost reduction...perhaps we can help you.

VENTURA PROCESSORS, Ventura, California

DISTRIBUTED BY:

International Flavors & Fragrances, Incorporated
417 Rosehill Place, Elizabeth 2, New Jersey

Ventura Processors, 2325 Vista Del Mar Drive, Ventura, California

o-Nitroaniline, flaked, dms. t.l., frt. alld lb. .49 - —
dms., t.l., frt alld lb. .51 - —
o-Nitroaniline orange toner. kgs. lb. 1.50 - —
p-Nitroaniline c.l., t.l., dms., 20,000 lb min., dlvd lb. .44½- —
dms. t.c.l., same basis lb. .46½- —
o-Nitroanisole tech. tanks. frt alld. lb. .36 - —
p-Nitroanisole, tech. solid, dms., frt alld lb. .72 - —
Nitrobenzene dbl dist., dms., c.l., frt alld lb. .13 - —
dms., t.c.l. frt. alld. lb .14 - —
tanks. frt alld lb. .12 - —
p-Nitrobenzoic acid, dms., c.l., works lb. .63 - —
Nitrocellulose ester-soluble, 30-35 cps., ¼ ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175 seconds, bbls., c.l., works lb. .37½- —
bbls., t.c.l., same basis lb. .33½- 40½
18-20 cps. bbls. c.l., same basis lb. .39½ —
bbls., t.c.l., same basis lb. .40½- 42½
250-400, 600-1,000 seconds, bbls., t.c.l. same basis lb. .43 .46
Nitrocellulose spirit soluble 30-35 cps. ¼ ½ seconds, bbls., c.l. same basis lb. .43 - —
bbls. t.c.l., same basis lb .44 .46
5-6 cps. 40-60 seconds, bbls., c.l. same basis lb. .42 —
bbls. t.c.l., same basis lb .43 .45
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable
o-Nitrochlorobenzene dms. c.l., frt. alld lb .15 - —
dms., t.c.l. same basis lb .16 - —
tanks, same basis lb .13 - —
p-Nitrochlorobenzene dms. lb .26 .27
2-Nitro-p-cresol tech. dms., dlvd lb .88 — —
Nitroethane dms. c.l. dlvd. E lb .25 — —
dms., t.c.l., dlvd E lb .26½- —
tanks dlvd E lb .22½ —
Nitroethane prices West of Rockies are 1c. higher
Nitrogen solutions, direct application, tanks, f.o.b. works unit-ton. 1.64 - —
Manufacturing type, same basis, unit-ton. 1.32 - —
Nitrogen tetroxide, indust., tankcars, f.o.b Hopewell, Va lb. .065 - —
Cyls. t.l., min 5 tons, same basis lb. .07½- —
Cyls. t.c.l., t.t.l. same basis lb. .15 - —
Nitrogenous process tankage, bulk, works unit-ton 4.50 5.00
Nitrogenous sewage sludge, bulk, f.o.b Chicago works. unit-ton. 3.50 - —
(The foregoing price is per unit NH_3, plus 50c. per unit a.p.a., bulk, f.o.b. producers' works, Chicago.)
Nitromethane dms. t.l., dlvd. E lb. .25 —
dms. t.l. dlvd E lb. .26½ —
Nitromethane prices West of Rockies are 1c higher
2-Nitronaphthalene bbls. frt. alld. lb. .31 - —
o-Nitrophenol, dms., works, frt. equald lb. .94 - —
p-Nitrophenol, dms., c.l., frt alld. lb 45 - —
dms. t.c.l. frt alld lb. 47 - —
2-Nitropropane dms. c.l., frt. alld. E of Rockies lb. 23½- —
dms. t.c.l. same basis lb .25 — —
tanks same basis lb .21 — —
2-Nitropropane dms. c.l., frt. alld. E of Rockies lb .18½- —
dms., t.c.l., same basis lb .20 — —
tanks same basis lb .16 — —
Nitropropane prices West of Rockies are 1c per lb higher
m-Nitrotoluene tech. dms. frt alld. lb. .50 - —
o-Nitrotoluene dms. c.l., frt. alld lb .15 - —
dms. t.c.l. frt alld. lb. 16 - —
tanks frt alld lb. 13 - —
p-Nitrotoluene, tech., cast, dms., c.l., works lb. .27½- —
dms. t.c.l. works lb. .28 - —
flake, dms., c.l., t.l., works lb. .27½- —
dms. t.c.l. works lb .28 — —
m-Nitro-p-toluidine dms. lb. 1.25 — —
Nonylphenol, dms. c.l. frt. alld. lb. .22½- —
dms., t.c.l., frt. alld lb. .23½- —
tanks, frt. alld lb. .20 — —
Nonylphenol prices on shipments to Western States are 2c. higher.
Nutmegs East indian, whole, bgs. lb. 1.18 - —
West Indian, bgs lb. 1.20 - —
Nutmeg oil USP dist., East indian, cns lb 9.00 12.00
West indian, cns. lb 9.00 12.00
Nux vomica, bls. lb .20 — —
Powd., bbls., bxs. lb. .20 .22

O

Ocher (see Iron oxide — ow, nat.)
Ocotea cymbarum oil, dms. lb. .45 - .47
Octine — tanks, Bayonne, N.J. gal. .20 —
1-Octanol, tech., dms. c.l., dlvd., Zone 1 lb. .43½- —
dms., t.c.l., dlvd. Zone 1—lb. .45½- —
tanks, dlvd., Zone 1 lb. 41 - —
Octyl alcohol, perfumers grade, bots. lb. 1.60 - 3.25
Octyl alcohol, tech, (see 1-Octanol, tech).
tert-Octylamine dms., c.l., t.l., f.o.b. works lb. .54½- —
dms t.c.l same basis lb .55 — —
Octylphenol, bgs., c.l., works lb. .22½- —
bgs., t.c.l., works lb. .23 - —
tanks, works lb .21½- —
Octylphenol in dms., 11c. higher.

OILS
Oil quotations are listed individually. For example, prices on Oil, coconut, may be found in the C's under Coconut oil.

Oiticica oil, liq., dms lb. .15¼- .15¾
tanks lb. .13¾- .14
Oleic acid, dbl.-dist. (white), dms. lb. .18¼- .20¾
tanks lb. .15¾- —
S. D., dms lb. .17¼- .19¾
tanks lb. .14¾- —
Oleum (see Sulfuric acid, fuming).
Olibanum gum, siftings, cs lb. .15 .20
Tears, cs. lb. 22 .30
Olibanum oil, bots lb 5.00 7.69
Extra fine, bots lb. 8.00 9.50
Olive oil, edible, dms., spot, duty-paid gal. 2.35 - 2.40
Olivine, crude, works ton.12.00 - —
20 mesh, works ton.15.00 - —
100 mesh works ton.20.00 - —
Opium, USP, cns., 25-lbs., f.o.b. works oz.19.20 - —
gran., cns., 50 lbs., same basis. oz.21.65 - —
powd., cns., 50 lbs., same basis. oz.21.65 - —
Orange oil, expressed, USP, Calif., cns., dms lb. .70 - .90
Calif., sweet., cns., dms lb. .60 - —
Florida, cns., dms lb. .40 - .45
Messina, cns. lb. 3.25 5.00
West Indian bitter, cns., dms., lb. 2.50 3.50
Orange peel, bitter, Haitian, bls lb. .18 .20
Sweet lb. .28 .30

ORANGE PIGMENTS
Orange pigment quotations are listed individually. For example, prices on Orange, chrome, may be found in the C's under Chrome orange.

Origanum oil, Spanish, cns lb 1.80 2.30
Orris root, Florentine, bls lb .55 - —
powd., bbls., bxs lb 65 - —
Verona, bls lb .35 - —
powd. bbls., bxs lb 45 - —
Orthoanisidine (see o-Anisidine).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde)
Orthochloroaniline (see o-Chloroaniline).
Orthochlorobenzoic acid (see o-Chlorobenzoic acid)
Orthochloroparanitroaniline (see 2-Chloro-4-nitroaniline)
Orthochlorophenol (see o-Chlorophenol).
Orthocresol (see o-Cresol)
Orthocresotinic acid (see 2,3-Creosotic acid)
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroaniline (see o-Nitroaniline).
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).
Orthonitroparachlorophenol (see 2-Nitro-4-Chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthophenetidine (see o-Phenetidine)
Orthophenylphenol (see o-Phenyl phenol).
Ortho-tertiary amylphenol (see o-tert-Amylphenol)
Orthotolidine (see o-Tolidine base)
Orthotoluidine (see o-Toluidine)
Ouabain, USP, bots. gram 3.00 4.00
Ouricury wax crude, bgs lb. .52 - .54
Refd., pure, bgs lb. .58 - .60
Oxalic acid, bgs., c.l., works lb. .18 - —
bgs., 10,000-lb. lots, works lb. .19 - —
bgs., smaller lots, works lb. .20½- —
Oxalic acid in drums is priced ½c. per lb higher.
b-Oxynaphthoic acid, pigment manufacture, dms., frt alld lb. .912 - —
Dyestuff manufacture, dms., same basis lb 1.03 1.14
Oxyquinolin sulfate, cns. 100-lb lots, works lb 4.75 5.00
cns., smaller lots, works lb 4.92 5.17

P

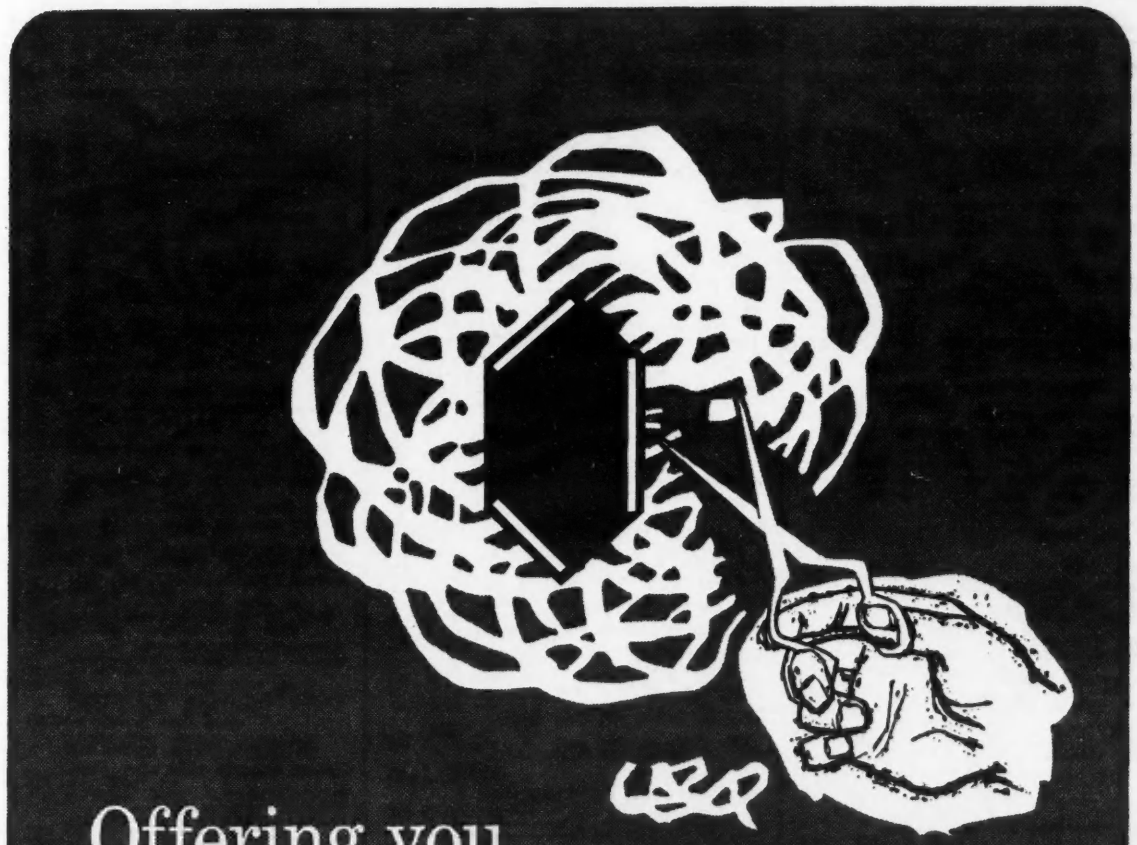
Palm oil, clarif., dms lb. .14¾- .15¾
tanks lb. .12 - —
Palm oil acid, double dist, dms. lb. .16 - .18½
tanks lb. .13½- —
single dist., dms lb. .14½- .18
tanks lb. .13 - —
Palmarosa oil, cns lb. 4.90 6.00
Papain, powd. bots. lb 5.50 10.00
Papaverine hydrochloride, nat. or syn., USP cns., 25-oz. to 100-oz. lots oz. 5.00 - —
cns., smaller lots oz. 5.05 5.20
Papaverine sulfate, nat. or syn., USP, cns oz. 7.10 7.35
Paprika, Bulgarian, bgs lb. .30 - —
Hungarian, bgs. lb. .31 - —
Spanish, bgs. lb. .30 - —
Yuogslavian, bgs. lb. .39 - —
Para-aminobenzoic acid (see p-Aminobenzoic acid)
Parachlorobenzoic acid (see p-Chlorobenzoic acid)
Paramethylphenylcinchonic acid (see Neocinchophen).
Paranitrobenzoic acid (see p-Nitrobenzoic acid).
Paratoluidinemetasulfonic acid (see p-Toluidine-m-sulfonic acid).
Para-aminophenol (see p-Aminophenol).
Parachlorophenol (see p-Chlorophenol).
Parachloro-orthonitroaniline (see 4-Chloro-2 nitroaniline).
Para-anisidin (see p-Ansidine)
Parachloraniline (see p-Chloraniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Para toner, red, bbls lb. 1.30 - —
Chlorinated, kgs. lb. 1.41 - —
Paraffin, crude, scale, white, 123°-127°F., ASTM, tanks, refy. lb. .0655- .0660
Paraffin, fully refd., 122°-124°F., ASTM, tanks, refy lb. .0765- —
125°-127°F., ASTM, tanks, refy. lb. .0765- —
130°-132°F., ASTM, tanks, refy. lb. .0765- —
Paraffin, fully refd., 132°-134°F., ASTM, tanks, refy lb. .0765- —
135°-137°F., ASTM, tanks, refy. lb. .0765- —
AMP temperatures are an arbitrary 3°F higher than ASTM.
Paraffin oil, pale, 100-110 vis., at 100°F., tanks east coast refy gal. .14 - —
Paraffin wax (see Paraffin)
Paraformaldehyde, 91% flake, bgs., c.l., frt alld lb. .10 - —
bgs., t.c.l., frt alld lb. .12 - .13
91%, powd., bgs., c.l., ex whse lb. .1715- —
bgs., t.c.l., ex whse lb. .1865- —
USP-X, fib dms., c.l. lb. .19 - —
fib dms., 1,000-lb. lots lb. .20 - —
fib dms., smaller lots lb. .21½- —
Paraldehyde, tech., 98%, 55-gal. dms., t.l., dlvd. E lb. .14 - —
55-gal. dms., l.c.l., dlvd. E lb. .15½- —
tanks, dlvd. E lb. .11½- —
Paranitroaniline (see p-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene)
Paranitrotoluene (see p-Nitrotoluene).
Paranitrophenol (see p-Nitrophenol).
Paraphenetidine (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).
Parathion ethyl, dms. frt. alld lb. .84 —
Parathion prices 2c. per lb. higher in West.
Paratoluenesulfonamide (see p-Toluenesulfonamide).
Passion flower herb, bls lb. .35 .40
Patchouli oil, imp., cns. lb. 5.60 6.50
Peach kernel oil, USP (see Apricot kernel oil).
Peacock blue, fugitive, 100% color strength, 250-lb. bbls., dlvd. E of Rockies lb. 1.00 - —
Peacock blue price 1c. higher W. of Rockies.
Peanut meal, old process, 45%, bgs., f.o.b., mills ton.56.50 - —
solvent, same basis ton.54.00 - —
Peanut oil crude, tanks, f.o.b. mills lb. .14 - —
Refd., dms. lb. .19¼- .19½
tanks lb. .17¼- —
Pecan, dom., NF, citrus, powd., 100 kilos, f.o.b. shipt. pt kilo. 4.52 - —
Pelargonic acid, dms., c.l., dlvd lb. .25 - —
ton lots, same basis lb. .27½- —
tanks, same basis lb. .23½- —
Penicillin, potassium, cryst., bulk, 1,000,000 units. .018 - —
Penicillin, procaine, cryst., bulk, 1,000,000 units. .020 - —
Pennyroyal oil USP imported, cns. lb. 1.95 - 2.70
Pentachlorophenol, 50-lb. bgs., c.l., t.l., works, frt. equald lb. .21 - —
bgs., less than ton-lots, same basis. lb. .29 - —
bgs., c.l., t.l., 2,000 lb. minimum, same basis lb. .22½- —
Pentachlorophenol in dms lc. higher.
Pentaerythritol tech., bgs., c.l., dlvd lb. .31 - —
bgs. t.c.l., dlvd lb .32 — —
Pentaerythritol, di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane indust. tanks, Tex refy. gal. .14 - —
Pentobarbital, dms. 100 lbs. or more lb. 6.00 - —
Pepper, black, Malabar, bgs. lb. .48 - —
Lampong, bgs. lb. .48 - —
Red Funtuas bgs. lb. .32 - —
Japanese Hontoka, bgs. lb. .37½- —
Santaka, bgs. lb. .31½- —
Sudanese, bgs. lb. .36 - —
White, Muntok, bgs lb. .74 - —
Peppermint leaves, dom., USP, bls., dms lb. No stocks.
imp., USP, dms. lb. .85 - .90
Peppermint oil, nat., dms lb. 4.90 - 5.25
Redist., USP, dms lb. 5.50 - —
Perchloroethylene dms., c.l., or t.l., dlvd lb. .13½- —
dms., t.c.l., dlvd. lb. .15¼- —
tanks, dlvd. lb. .11¾- —
tanktruck, 1,000 gal. min. dlvd lb. .12¼- —
Peri acid, dry bbls., frt. alld lb. 1.60 - —
Paste, bbls., frt. alld lb. 1.55 - —
Peru balsam, dms lb. 1.15 - 1.50
Persic oil, USP (see Apricot kernel oil).
Petitgrain oil, South American, cns., dms lb. 2.30 - —
Petrolatum, cream, dms., c.l., refy. lb. .08125- —
dms., t.c.l., dlvd. lb. .10125-.11375
tanks, refy. lb. .05875- —
Extra amber, dms., c.l., refy lb. .07125- —
dms., t.c.l., dlvd. lb. .09125-.10375
tanks, refy. lb. .04875- —
Petrolatum, lily white, dms., c.l., refy lb. .08625- —
dms., t.c.l., dlvd. lb. .10625- .12
tanks, refy. lb. .06735- —
Petrolatum, USP, snow white, dms., c.l., refy lb. .09125- —
dms., t.c.l., dlvd lb. .11125- .125
tanks, refy. lb. .06875- —
Petrolatum, USP, soft yellow, dms., c.l., refy lb. .07125- —
dms., t.c.l., dlvd. lb. .095 - .10375
tanks, refy lb 04875- —
Petroleum pitch (see Asphalt, petroleum).

PETROLEUM PRODUCTS
Petroleum product quotations are listed individually. For example, prices on Petroleum, mineral spirits, may be found in the M's under Mineral spirits, petroleum.

Petroleum sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works. lb. .16½- .18¾
non-ret. dms., t.c.l., works lb. .17½- .19
tanks, works lb. .14½- .17
50-55% sulfuric content, non-ret. dms., c.l., works lb. .16 - —
non-ret. dms., t.c.l., works lb. .17 - —
tanks, works lb. .13 - —
o-Phenetidine, dms., c.l., frt. alld. E lb .91 - —
dms., t.c.l., same basis lb. .93 - —
p-Phenetidine, dms., c.l., frt. alld. lb. 1.05 - —
dms. same basis lb. 1.08 - —
Phenobarbitol, USP, dms., 100-lbs., frt. alld lb. 3.25 - —
Phenobarbital-Sodium (see sodium phenobarbital).
Phenol, 90-92% (cresol 8-10%), non-ret. dms., frt. alld. E. of Rockies lb. .17¾- —
non-ret. dms., t.c.l., same basis. lb. .18¾- —
tanks, same basis lb. .15¾- —
Phenol, 82-84% (cresol 16-18%) non-ret. dms., c.l., same basis. lb. .17½- —
non-ret dms., t.c.l., same basis. lb. .18½- —
tanks, same basis lb. .15½- —
Phenol, 39°C., or above, tar dist., non-ret. dms., c.l., same basis. lb. .19 - —
39°C., or above, tar dist., non-ret. dms., t.c.l. lb. .20 - —
tanks, same basis lb. .17 - —
USP, syn., dms., c.l., t.l., frt. alld lb. .19½- —
dms., t.c.l., same basis lb. .21½- —
tanks, same basis lb. .17½- —
Phenolphthalein, USP or yellow, 250-lb. dm., 2,000 lbs., frt. alld lb. 1.30 - —
250-lb dm., same basis lb. 1.35 - —
Phenothiazine drench, fib dms., t.l., dlvd lb. .46 - —
fib. dms., ton lots, dlvd lb. .49 - —
NF, fib. dms., t.l., dlvd lb. .45 - —
fib. dms., ton lots, dlvd lb. .48 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Phenyl salicylate (see Salol)
Phenylacetaldehyde, soln., 50%, bots. lb. 2.15 - 2.35
100%, bots. lb. 3.80 - 4.00
Phenylacetic acid, pure, cryst., cns. lb. 1.25 - 1.75
di-Phenylalanine, dms., 1-kilo kilo.65.00 - —
l-Phenyl-3-carbethoxy pyrazolone-5, fib dms., 200-lb. lots, dlvd. E lb. 3.45 - —
fib dms., smaller lots, dlvd. E lb. 3.80 - —
N-Phenyldiethanolamine, dms., c.l., dlvd. E lb. .50 - —
dms., t.c.l., dlvd. E lb. .51½- —
tanks, dlvd. E lb. .47½- —
m-Phenylenediamine, dms., c.l., t.l., frt. alld lb. 1.08 - —
t.c.l., t.t.l., same basis lb. 1.10 - —
e-Phenylenediamine, comi, fib. dms, 100 to 1,000 lbs., works. lb. 1.70 - 1.80
p-Phenylenediamine, tech., dms, works lb. 1.55 - —
Phenylethanolamine, dms., c.l., works lb. .75½- —
dms., t.c.l., same basis lb. .76¼- —
Phenylethyl acetate, bots. lb. 1.25 - 1.40
2-Phenylethyl alcohol, extra, dms. lb. 1.14 - 1.30
Standard, dms. lb. 1.10 - 1.60
b-Phenylethylamine, dms., 20,000 lbs. or more, frt. alld. lb. 1.50 - —
dms., smaller lots, frt. alld lb. 1.70 - 1.85
Phenylethylphenyl acetate, bots. lb. 4.00 - 4.25
Phenylglyconic acid (see Mendelic acid).
Phenylhydrazine, 97%, 450-lb. dms. lb. 1.45 - —
1-Phenyl-3-methyl pyrazolone-5, fib. dms., 250-lb. lots, dlvd. E lb. 1.80 - —
fib dms., smaller lots, dlvd. E lb. 2.10 - —
o-Phenylphenol, dms., t.c.l., works, lb. .48 - .50
p-Phenylphenol, bgs., c.l., works lb. .38½- —
bgs., t.c.l., works lb. .43 - —
Philippine copal gum, pale, chips, bgs lb. .23¾- .26
nubs, bgs. lb. .33¼- .37
seeds, bgs. lb. .20 Nom.
sorts, bgs. lb. .20 - .24
Phloroglucinol, -coml., fib dms., works lb. 6.40 - —
CP, bots., works lb. 17.75 - —
Tech., fib dms. works lb. 10.45 - —
Phloxin red toner (see Eosin red toner)
Phosgene, ret. cyls. works lb. 15½- —
Phosphate defluorinated (see under D)
Phosphate rock, Curacao, Atlantic ports, New Orleans ton. 46.50 - —
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 66-68%, b.p.l., bulk, c.l., mines, short-ton. 4.989 - 5.398
68-70%, b.p.l., bulk, c.l., same basis short-ton. 5.849 - 5.858
70-72%, b.p.l., bulk, c.l., same basis short-ton. 6.429 - 6.438
Phosphate rock, Florida, land pebble, run of mine, washed, dried, unground, 74-75%, b.p.l., bulk, c.l., same basis, short ton. 7.329 - 7.338
76-77%, b.p.l., c.l., bulk, same basis short-ton. 8.219 - 8.228
Above Florida prices are based on fuel oil at 2.52 per bbl and labor at $1.64.
Phosphoric acid, food grade, 75%, cbys. c.l., works, E., frt. equald 100 lbs. 7.00 - —
cbys. t.c.l., same basis 100 lbs. 7.25 - 7.75
tanks, t.w., works 100 lbs. 5.60 - —
80% cbys., c.l. frt equald 100 lbs. 7.85 - —
cbys. t.c.l., works 100 lbs. 8.10 - 9.35
tanks, t.w., works 100 lbs. 6.00 - —
NF 85%, cbys., c.l., works. 100 lbs. 8.50 - —
cbys., t.c.l., works 100 lbs. 8.75 - 9.00
tanks, t.w., works 100 lbs. 6.65 - —
Phosphorus, amorph., red, dms., t.l., works lb. .55 - —
dms., smaller lots, works lb. .56 - .57
White (yellow), solid, dms., c.l., works, frt. equald lb. .20 .20¼
dms. t.c.l., works, frt. equald lb. .21½- —
tanks, works, frt equald. lb. .19 - —
Phosphorus oxychloride, dms., c.l., works lb. .14 - —
dms., t.c.l., works lb. .15 - —
tanks, works, frt. equald lb. .12½- —
Phosphorus pentasulfide, powd., dms. c.l., works lb. .13½- —
dms. t.c.l., works lb. .14½- .15¼
Solid, dms., c.l., works lb. .11½- —
dms. t.c.l. works lb. .12½- .13¼
Phosphorus pentoxide, dms., c.l., works lb. .1375- .1475
dms. t.c.l., works lb. .1475- .1675
Phosphorus sesquisulfide, dms., cs., c.l., works lb. .38 - —
dms. t.c.l., works lb. .39 - .40
Phosphorus trichloride, dms., c.l., works lb. .14 - —
dms., t.c.l., works lb. .15 - —
tanks, works lb. .12½- —
Phthalic anhydride, bgs., c.l., works, frt. equald lb. .20 - —
bgs., t.c.l., same basis lb. .21 - —
tanks, same bsais lb. .19½- —
Phthalimide 97-98%, dms., frt. alld lb. .65 - —
Phthalocyanine blue, full strength, bbls., dlvd. E. of Rockies. lb. 2.90 - —
Resinated, bbls., same basis lb. 2.75 - —
Water dispersable, bbls., same basis lb. 1.52 - —
Phthalocyanine blue prices 1c. higher W. of Rockies.
Phthalocyanine green toner, bbls., works lb. 3.35 - —
Resinated, bbls. lb. 3.00 - —
Water dispersable, bbls. lb. 1.71 - —
Phthalocyanine green prices 1c. higher W. of Rockies
Phthalylsulfacetamide, fib. dms., 1,000-lb. lots or more lb. 5.00 - —
NF, fib. dms. lb. 5.20 - —
a-Picoline, dms. c.l., works, frt. equald lb. .46 - .48
dms., t.c.l., works, frt. equald lb. .46½- .49
tanks, same basis lb. .43 - .46
b-Picoline, 98% dms., t.l., works. lb. 1.05 - —
dms., t.c.l., same basis lb. 1.15 - —
tanks, same basis lb. .95 - —
b,g-Picoline, 5°C. dms., c.l., works. lb. .32½- —
dms., t.c.l., works lb. .33 - —
g-Picoline, dms., t.o.b., works lb. 1.60 - —
tanks, t.l., same basis lb. 1.50 - —
Picric acid, NF bbls. lb. .85 - —
Tech., bbls. lb. .44 - —
Pigment green B, kgs lb. 1.55 - —
Pilocarpine hydrochloride, USP, bots oz. 4.75 - 5.25
Pilocarpine nitrate, USP, bots., vials. oz. 4.65 - 5.15
Pimento, Jamaican, bgs lb. .68¾- —
Mexican, bgs. lb. .56 - —
Pimento berry oil, NF, dms. lb. 3.75 9.25
Pimento leaf oil, crude, cns lb. 2.50 - 2.60
Pine oil, dest.-dist., dms., t.c.l. works lb. .15 - —
dms., t.c.l. ex whse. New York. lb. .173 - —
Steam-dist., dms., ex whse., New York lb. .185 - —
dms., dlvd lb. .188 - —
Pineneedle oil, Siberian (see Abies Siberica oil).
Pink root, bls. lb. 2.25 - —
Piperazine anhyd., dms. c.l., frt. alld. E lb. 1.80 - —
dms., t.c.l., frt. alld. E lb. 1.85 - —
Piperazine citrate, 36%, dms., 1,000 lbs or more, frt alld lb. 1.15 - —
Piperazine dihydrochloride, 51%, dms. 1,000 lbs or more, frt. alld lb .1.23 - —
Piperazine hexahydrate, 44%, dms., 1,000 lbs or more, frt. alld lb. .86 - —
dms. 200-900 lbs. frt. alld lb. .89 - —
Piperazine phosphate, 42%, dms., 1,000 lbs or more, frt. alld lb. 1.06 - —
Piperidine, dist., 98% min., 5 dms. or more, l.c.l., t.t.l., f.o.b. works lb. 2.65 - —
1-4 dms., same basis lb. 2.70 - —
dms., c.l., t.l., frt. equald lb. 2.55 - —
Piperonyl butoxide, dms., dlvd. E lb. 4.50 5.05

PITCHES
Pitch quotations are listed individually For example, prices on Pitch, soybean, may be found in the S's under Soybean pitch.

Platinum metal, works	oz.	31.00	35.00
Pleurisy root, bls.	lb.	.45	.50
Podophyllum resin, NF, dms.	lb.	12.50	15.50
Poke root, bls.	lb.	.19	.22
Polymyxin, bots., bulk., 50 billion units or more, 1,000,000 units.		.52	—
bulk, bots., 25-50 billion units, 1,000,000 units.		.54	—
bulk, bots., 1-25 billion units, 1,000,000 units.		.56	—
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works	lb.	.42	—
dms., 10,000-20,000-lb. lots, works.	lb.	.44	—
dms., smaller lots, works	lb.	.47	.49
Polyoxyethylene sorbitan tristearate, dms., 20,000-lb. lots, works	lb.	.42	—
dms., 10,000-20,000-lb. lots, works	lb.	.44	—
dms., smaller lots, works	lb.	.47	.49
Pontianak copal gum, chips, bgs.	lb.	.23½	.26
Nubs, bgs.	lb.	.38	.44
Poppy seed, Argentine, bgs.	lb.	No stocks.	
Dutch, bgs.	lb.	.14	—
Danish, bgs.	lb.	.14	—
Polish, bgs.	lb.	.13	—
Turkish, bgs.	lb.	.11	—
Potash, caustic, liq., 45% basis, dms., c.l., works 100 lbs.		4.25	—
dms., l.c.l., same basis	100 lbs.	5.25	—
tanks, same basis	100 lbs.	3.70	—
reg., flake, 88-92% dms., c.l., same basis 100 lbs.		9.55	—
Potash, reg., flake, 88-92%, dms., l.c.l., same basis	100 lbs.	11.05	—
solid, 88-92% dms., c.l., works 100 lbs.		9.10	—
dms., l.c.l., works	100 lbs.	10.60	—
Potassium acetate, NF, 200-lb. dm., f.o.b works, E	lb.	.31	—
Potassium bicarbonate, USP, gran. dms	lb.	.22	—
powd., dms	lb.	.24	—
Potassium bichromate, gran., bgs., c.l., t.l., works	lb.	.18	—
bgs. l.c.l., works	lb.	.18½	.19¾
Potassium bichromate in dms ¾c. higher.			
Potassium bitartrate, NF, gran., powd., 100-lb. bgs., c.l., frt. equald	lb.	.37	—
100-lb. bgs., 5,000 lbs., 1 shipt., same basis	lb.	.38	—
100-lb. bgs. smaller lots, same basis	lb.	.40	—
Potassium borohydride, powd., dms., works	lb.	16.00	22.00
Pelletized potassium borohydride $1.25 per lb. higher in 1,000-lb. lots			
Potassium bromate, 200-lb. dms., c.l., frt. alld	lb.	.49	—
Potassium bromide, USP, gran., bbls., kgs	lb.	.39	.40
Potassium carbonate, dom., NF, gran., bbls., dms	lb.	.22	.24
Dom. tech. powd., bbls., dms	lb.	.21	.22
Dom. calcinated, bgs., c.l., works 100 lbs.		8.50	—
bgs., l.c.l., same basis 100 lbs.		9.55	—
Dom. hydrated, 83-85%, bgs., c.l., works 100 lbs.		7.10	—
bgs. l.c.l., works 100 lbs.		8.15	—
Potassium chlorate, cryst. dms., c.l., works	lb.	.12¼	—
dms., l.c.l., works	lb.	.13½	.14½
Powd., dms., c.l., works	lb.	.12¾	—
dms. l.c.l., works	lb.	.14	.15
works	lb.	.12¼	—
Potassium chlorate, NF, cryst., dms. 2,000 lbs or more, works	lb.	.16¾	—
NF, gran., 25-lb metal dms	lb.	.36	—
NF powd., dms., 2,000 lbs. or more, works	lb.	.17¼	—
Potassium chloride indust., 99.9% KCL, bulk, c.l., works	ton.	29.00	—
bgs., c.l., works	ton.	34.00	—
99.3% KCL, bulk, c.l., works.	ton.	28.00	—
bgs., c.l., works	lb.	33.00	—
USP cryst., dms.	lb.	.20	.22
USP gran., dms.	lb.	.21	.23
USP powd., dms.	lb.	.24	.26
Potassium chloride agricultural (see Potassium muriate)			
Potassium chromate, tech., dms., works	lb.	.50	.51
Potassium citrate, NF, gran., 250-lb. dms., f.o.b. works E	lb.	.43	—
powd., 250-lb dms., same basis,	lb.	.46	—
Potassium cyanide, dms., 20,000-lb. lots or more, works	lb.	.42½	—
dms. 2,000-19,999-lb lots, works,	lb.	.43	—
dms. smaller lots, works	lb.	.44	.44½
Potassium dichromate (see Potassium bichromate).			
Potassium ferricyanide, dms., ton lots, works	lb.	.50	—
dms., smaller lots, works	lb.	.65	—
Potassium ferrocyanide, dms., ton lots	lb.	.24½	—
dms. smaller lots	lb.	.29	—
Potassium fluoborate, fib dms., c.l., works	lb.	.30	—
fib dms., l.c.l., works	lb.	.31	—
Potassium fluoride, dms., works	lb.	.36	.37
Potassium gluconate, 100-lb dm., f.o.b works E	lb.	1.67	—
Potassium guaiacol sulfonate, NF, dms	lb	2.10	2.30
Potassium hydroxide, tech (see Potash caustic).			
Potassium hydroxide, USP, pellets, 100-lb dms. 1 to 100-dm. lots	lb.	.33½	.38
Potassium hypophosphite, NF fib. dms., 1,000-lb. lots	lb.	1.38	—
Potassium iodide, USP cryst., gran., dms., 500-lb., f.o.b. works,		1.55	—
Potassium manure salt, min. 20% K_2O, bulk, c.l., works, unit-ton		.17	.1765
Potassium metabisulfite, gran. dms.,	lb.	.16	—
Powd. dms	lb.	.27	—
Potassium muriate, standard, bulk, c.l., works unit-ton.		.37½	.39½
bagged 60% minimum K_2O, same basis	ton.	26.60	27.80
Gran., bulk, c.l., works unit-ton.		.38½	.40½
bagged, 60% minimum K_2O, same basis	ton.	28.10	30.10
Inside prices apply to material contracted for prior to July 1, 1960			
Outside prices apply to material contracted for after that date but also for delivery during the current month			
Potassium nitrate, NF cryst., bbls., 20-ton lots	100 lbs	17.00	—
bbls., smaller lots	100 lbs	18.00	19.00
gran. bgs., 20-ton lots	100 lbs	9.50	—
bgs., smaller lots	100 lbs.	11.00	12.00
powd., bgs., 20-ton lots	100 lbs.	10.50	—
bgs., smaller lots	100 lbs	12.00	13.00
Potassium oxalate, neutral, tech., fine gran., powd., 300-lb dm. f.o.b works E	lb	.32	—
Potassium pentaborate gran. dms. c.l. works	ton.	219.50	—
dms., ton lots, ex whse	100 lbs.	17.48	—
dms., smaller lots, ex whse	100 lbs.	18.73	—
Powdered potassium pentaborate $10 per ton higher.			
Potassium perchlorate, dms., c.l., works	lb.	.18¼	—
dms., l.c.l., works	lb.	.19	.20
Potassium permanganate, coml., kgs., works	lb.	.25	.33
USP, dms., works	lb.	.29	.38
Potassium persulfate, dms., c.l., works	lb.	.17¼	—
dms., l.c.l., works	lb.	.18	.21
Potassium pyrophosphate, tetrabasic, dms., works	lb.	.1475	.1575
Potassium prussiate red (see Potassium ferrocyanide).			
Potassium prussiate yellow (see Potassium ferro-cyanide).			
Potassium silicate, electrical grade, 30° Be, 1:2.0, dms., c.l., works 100 lbs.		6.50	—
dms., l.c.l., 5 dm. lots or more, works 100 lbs.		7.25	7.65
tanks, works 100 lbs.		6.15	—
Potassium silicate, electrical grade, 40.5° Be, 1:2.1, dms., c.l., works 100 lbs.		5.95	—
dms., l.c.l., 5 dm. lots or more, works 100 lbs.		6.70	—
tanks, works 100 lbs.		5.60	—
Potassium silicate, glass grade, bgs., c.l., works 100 lbs.		17.30	18.00
bgs. l.c.l., works 100 lbs.		17.80	—
Soln., 29° Be 1:2.5, dms., c.l., works 100 lbs.		4.95	—
dms. l.c.l., 5-dm. lots or more, works 100 lbs.		5.70	—
tanks, works 100 lbs.		4.60	—
Potassium silicofluoride, bgs., works	lb.	.09½	.10
Potassium silicofluoride in drums, 0.4c. per lb higher			
Potassium stannate, dms., frt. alld. E	lb.	.789	.861
Potassium sulfate, min 50% K_2O, agricultural, bulk, c.l., works unit-ton.		.70½	.72½
Inside price applies to tonnage contracted for prior to July 1, 1960			
Outside price applies to tonnage contracted for after that date but also for delivery during the current month.			
Potassium sulfate NF VII, cryst., dms.,	lb.	.31	.33
NF VII, gran., 400-lb. dm	lb.	.18	—
NF VII, powd., 400-lb dm	lb.	.17	—
Potassium sulfocyanate, NF, cryst., (see Potassium thiocyanate)			
Potassium thiocyanate, NF, cryst., dms., works	lb.	.96	.98
Tech., dms., works	lb.	.77	.79
Potassium titanate, ctns., c.l., works.	lb.	.16¼	—
ctns. 5-ton lots, works	lb.	.16½	—
ctns., 1-ton lots or less, works	lb.	.16¾	—
Potassium-magnesium sulfate, basis 40% K_2SO_4 and 18% MgO, bulk, works, base price.	ton.	13.45	—
bulk, works, July forward	ton.	14.00	—
Potassium-sodium tartrate, NF gran. or powd., 250-lb. dms., c.l., works E	lb.	.42½	—
250-lb. dms., 5,000-lb. lots, same basis	lb.	.43	—
250-lb. dms., same basis	lb.	.43½	—
Potassium-titanium fluoride, fib. dms., works	lb.	.39	.40
Potassium-zirconium flouride, fib. dms. c.l., works	lb.	.50	—
fib. dms., l.c.l., works	lb.	.52½	.55
Pregnenolone, bots.	gram	No prices.	
Pregnenolone acetate, bots.	gram.	No prices.	
Procaine hydrochloride USP antibiotic grade, dms., 2,000-lb. lots, frt alld	lb.	2.25	—
Procaine hydrochloride, USP, ampule grade, dms., 1,000-lb. lots, frt. alld	lb	2.40	—
dms. 500 lbs	lb	2.45	—
dms., 100 lbs	lb.	2.50	—
Progesterone, USP, bots.	gram	No prices.	
Pregnenolone acetate, bots	gram.	No prices.	
Propenyl guaethol, dms.	lb.	24.30	27.00
b-Propriolactone, tech., dms., c.l., f.o.b. works	lb.	.47½	—
dms., l.c.l., t.l., same basis	lb.	.48½	—
tanks, same basis	lb.	.45	—
Propionic acid syn., pure, dms., c.l., dlvd	lb.	.23¼	—
dms., l.c.l., dlvd.	lb.	.24¾	—
tanks, dlvd.	lb.	.20¾	—
n-Propyl acetate, dms., c.l., dlvd.	lb.	.14¾	—
dms., l.c.l., dlvd	lb.	.16¼	—
tanks, dlvd	lb.	.12¼	—
n-Propyl alcohol, dms., c.l., dlvd	lb.	.14	.15
dms., l.c.l., dlvd	lb.	.15½	.16½
tanks, dlvd	lb.	.11½	.12¼
n-Propyl gallate, dms., 100 to 2,000-lb lots works	lb	3.90	4.40
n-Propyl-p-hyroxybenzoate, USP, dms	lb.	2.30	2.40



Offering you
big company
facilities
with

small company
maneuverability

PITT-CONSOL'S ability to cut through red tape to assure prompt delivery is just one of many conveniences available to you that normally are associated only with smaller producers of chemicals. When you specify PITT-CONSOL you also get high purity products produced under the latest technical methods—precisely controlled . . . Abundant raw materials of petro-chemical and coal tar origin, backed by the research and resources of one of the largest companies in the coal industry, safeguard continuity of supply and service to you.

For rapid reference to PITT-CONSOL products consult the Chemical Materials Catalog or write for brochure. Depend on us for complete technical assistance.

PITT-CONSOL CHEMICALS

PITT-CONSOL Chemical Company

191 Doremus Avenue • Newark 5, N. J.

A SUBSIDIARY OF CONSOLIDATION COAL COMPANY

HIGH PURITY PHENOLS, CRESOLS, CRESYLIC ACIDS • RUBBER CHEMICALS • ARYL MERCAPTANS

Propyl thiouracil, bots., 50 kilo lots or more kilo. 55.00 —
bots., smaller lots kilo 55.10 -55.30
n-Propylamine dms., c.l., dlvd lb 1.24 —
dms., l.c.l., same basis lb 1.255 —
n-Propylene dichloride consumers', dms., c.l., dlvd E lb .0845- —
dms., l.c.l., same basis lb .0995- —
tanks, same basis lb .07 —
Propylene dichloride prices in West 1c. higher same basis
Propylene glycol, indust., dms., c.l., dlvd E lb .15 —
dms., l.c.l., same basis lb .16¾- —
tanks, same basis lb .12½- —
USP, dms., c.l., dlvd E lb .17 —
dms., l.c.l., same basis lb .18¾- —
tanks, same basis lb. .14½- —
Propylene glycol methyl ether, dms., c.l., dlvd lb. .20 —
dms., l.c.l., same basis lb .21 —
tanks, same basis lb. .18½- —
Propylene oxide, dms., c.l., dlvd E, lb. .17 —
dms., l.c.l., dlvd. E lb. .18½- —
tanks, dlvd. E lb. .14½- —
Psyllium seed, black, bgs. lb. .38 - .40
Blonde, bgs. lb. .18 - .20
Husks, bgs. lb .42 .45
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb. .03⅝- .04¼
bgs., smaller lots lb. .03⅞- —
Imp., Italian, silk-screen, coarse, bgs. ton lots lb. .06½- —
fine, bgs. ton lots lb .04 —
sun dried, coarse, bgs ton 60.00 —
fine, bgs. ton 60.00 -70.00
Pumpkin seed, bgs lb. .25 .26
Pyrethrins, syn. (see Allethrin).
Pyrethrum flowers, fine grd. 0.9% pyrethrins, bgs., ton, works lb. .50 - —
Powd., 1.3% pyrethrins, bgs., ton works lb. .71 - —
Pyrethrum liquid, 20-1 basis (2 grams pyrethrins per 100cc odorless base), dms., works, gal. 9.60 9.80
Pyrethrum liquid, 100-1 basis (10 grams pyrethrine per 100cc odorless base), dms., works gal. 45.90 46.90
Pyrethrum oleoresin, dewaxed, 20%, dms., works lb. 11.00 11.35
purif., 20%, dms., works lb. 11.00 11.35
Pyridine, denat., dms., c.l., works and frt. equald gal. 2.77 - —
dms., l.c.l., same basis gal. 2.80 - —
Retd., 2°, non-ret., dms., c.l., same basis lb. .75½- —
dms., l.c.l., same basis lb. .76 - .76½
tanks, same basis lb. .71 - —
Pyridoxine hydrochloride, USP, 500-gram bots., dms., f.o.b. works kilo. 95.00 -100.00
Pyrites, Canadian, 48-50% S, mines, long-ton. 4.50 5.00
Pyrocatechol (see Catechol)
Pyrogallic acid, NF (see Pyrogallol).
Pyrogallic acid, tech., bbls., 100 lbs., f.o.b. works lb 3.50 - —
Pyrogallol, NF, 100-lb. dms lb 3.50 - —
Pyroxylin, USP bots lb 9.50 —

Q

Quassia chips lb. .10 —
Quicksilver (see Mercury metal)
Quince seed, bgs lb. 1.75 - 2.00
Quinidine sulfate, USP, 1,000-oz. dm oz 74½ —
Quinine, NF, 1,000-oz. dm. oz. .3750- —
Quinine bisulfate, USP, 1,000-oz dm. oz. .28 —
Quinine hydrochloride, 1,000-oz dm oz. .3650- —
Quinine sulfate, USP, 1,000-oz dm. oz. .3150- —
Quinoline, dms., c.l., frt. equald. lb .50¾ —
dms., l.c.l., same basis lb .51¼ —
tanks, same basis lb .50 —

R

R salt paste, dms., frt. alld., 100% basis lb .98 - —
Powd., frt. alld., 100% basis lb 1.08 - —
Rapeseed oil, dms lb. .18 - .18½
tanks lb. .16¼- —
Rare earth oxalate, NF, 45-50%, bgs., works lb 1.15 —
Rauwolfia serpentina root, powd., bbls., dms lb 1.00 1.20
Red carmine, No. 40 (see Carmine).
Red oil (see Oleic acid)

RED PIGMENTS

Red pigment quotations are listed individually. For example, prices on Red, lithol toner, may be found in the L's under Lithol red toner.

Red precipitate (see Mercuric oxide, red).
Red toner, Lake C, alizanine, bbls., works lb 1.30 - —
Reserpine, cryst., bots., gram 1.25 —
Resorcinol, tech. grade, bgs., c.l., works, frt. equald lb 77½- —
bgs., l.c.l., same basis lb. 78½- —
Resorcinol in dms, 1c per lb. more
USP powd., dms., works lb 2.95 —
Resorcinol monoacetate, NF, dms lb 2.50 —
Rhatany root, bgs lb 14 .16
Rhodamine red toner, molybdated, PMA, kgs., works lb 6.00 —
Tungstated PTMA, works, kgs lb 6.60 —
Rhodinol, 5-lb. cans lb. 42.00 51.00
Synthetic lb 14.00 16.00
Rhubarb root, India, whole, bgs lb .25 —
powd., bgs lb .35 —
Riboflavin, USP, fib dms., kilo or more, dlvd kilo 36.00 - —
Riboflavin 5-phosphate-sodium, fib dms., kilo or more, dlvd kilo 104.50 —
Rice bran oil, clarified, dms., c.l. lb. .14 .14½
tanks, dlvd E lb .12 Nom.
Ricinoleic acid (see Castor oil acids, split)
Rochelle salt (see Potassium sodium tartrate)
Roofing pitch (see Coaltar pitch, roofing)
Rose oil, nat., Bulgarian, bots lb 1,152.00 —
Turkish, bots lb 560.00 750.00
Rosemary oil, Spanish, NF, cns., dms lb .97 1.40
Spanish, tech., cns., dms lb .50 1.20
Rosin gum and wood (see Naval Stores in Protective Coatings market)
Rotenone, fib, dms., works unit-lb. .10½- —
Resin, 25-45% fib, dms., works, unit-lb. .10½- —
Rottenstone, bgs., 5-ton lots, ex-whse lb. .03¾- —
bgs., ton lots, same basis lb .04¼- —
Rubber solvent, petroleum, 115°F-245°F b.r., tankcars, New Jersey and New York gal. .19 - —
Group 3 gal. .13875- —
Houston, Texas gal. .155 - —
Rue oil, bots lb. 2.75 3.00
Rutin, NF, fib, dms., 10 kilo lots. kilo. 11.00 - —
fib, dms., 5 kilo lots kilo. 11.50 - —
fib, dms., 1 kilo kilo. 13.00 - —
Ryania, 100%, powd., bgs., c.l., works lb .22 - —
bgs., l.c.l., same basis lb .24 - —

S

S acid, bbls., works lb. 3.25 - —
Sabadilla seed, activated, ground with lime, bbls lb .42 .44
Saccharin, calcium, fib, dms., 1,000-lb lots, works lb 2.50 —
USP, gran., soluble, dms., 1,000-lb lots, works lb 1.40 - —
dms., smaller lots lb 1.50 - —
USP, powd., soluble, insoluble, dms., 1,000-lb lots lb 1.45 - —
dms., smaller lots lb 1.55 - —
Saccharin, USP, powd., insoluble, dms., 1,000-lb. lots lb 1.43 - —
dms., smaller lots lb 1.53 - —
Safflower oil, dms., New York lb. .1795- .1820
tanks, Atl. Coast lb. .1795- .1620
Saffron, Mancha Superior, tins lb. 19.50 —
Safrol, dms lb 65 —
Sage, Dalmatian, bgs lb 40 —
Greek, cns. lb 15 —
Italian, cns. lb 18 —
Sage oil, clary, bots lb 12.00 -15.00
Dalmatian, cns lb 2.85 3.25
Spanish, cns lb 1.25 1.75
Sal soda (see Soda, sal).
Salicylaldehyde, dms., c.l., t.l., f.o.b., plant, frt. equald lb 1.23 —
dms., l.c.l., same basis lb 1.25 —
Salicylamide, 100-lb. dms lb 1.05 —
Salicylic acid, tech., fib, dms., c.l., t.l., dlvd lb. 40½- —
fib dms., l.c.l., dlvd lb. 44¾- —
Salicylic acid, USP, cryst., 200-lb. fib, dms., 1,000 lbs. or more lb. .51¾- —
200-lb fib dms., less than 1,000 lbs lb. .54¾ —
Salicylic acid, cryst., 100-lb. fib, dms., 1,000 lbs. or more lb. .53¾- —
100-lb fib dms., less than 1,000 lbs lb. .56¾ —
USP, powd., 100-lb fib dms., 1,000 lbs. or more lb. .58¾- —
100-lb. fib dms., less than 1,000 lbs lb. .61¾- —
Salol, NF, gran., bbls., kgs lb 1.20 —
Powdered salol, 25c per lb higher.
Salt, rock, paper bgs., c.l., 100 lbs 1.09 - —
Salt, table, vacuum, common, fine, paper bgs., c.l. 100 lbs 1.34 - —
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis ton 28.00 - —
Saltpeter (see Potassium nitrate)
Sandalwood, E. Indian, chips, bgs., lb .55 .66
powd., fib dms lb .75 .76
Sandalwood oil, cns lb. 21.00 —
Sarcosine, tech., tanks, f.o.b., works, frt. equald lb 1.03 —
lb No stocks.
Sassafras oil, artif., dms lb. .45 —
Nat., dom., dms lb 1.40 —
Savory oil, cns lb 4.75 —
Schaeffer's salt paste, dms., frt. alld, 100% basis lb .85 - —
Powd., bgs., frt. alld., 100% basis, lb .95 - —
Scopolamine hydrobromide, USP, bots oz 13.00 —
Sebacic acid, CP, bgs., c.l., works lb. .69½- —
bgs., l.c.l., works lb. 71½- —
Purified, bgs., c.l., works lb. .65½- —
bgs., l.c.l., works lb. .67½- —
Seidlitz mixture, fib dms., 5,000-lb. lots lb. .30½ —
fib dms., smaller lots lb. .31 .32
Selenium, powd., 99½%, dms., dlvd, lb. 7.00 - —
Senega root, bls lb. 3.00 - 3.25
Senna leaves, Alexandria, whole and half, bls lb. .20 - .22
siftings lb. .16 - —
Tinnevelly, No. 1, bls lb. .22 - —
No. 2, bls lb. .18 - —
No. 3, bls lb. .14 - —
pods, bls lb. .28 - —
powd., bbls., bxs lb. .17 - —
Serpentaria, root, bls lb. 6.50 - —
Sesame oil, USP, dms., l.c.l. lb. .37 .38
Sesame seed, Colombian, bgs lb. .15½- —
Lebanese, hulled, bgs lb. .19 - —
Nicaraguan, hulled, bgs lb. .21 - —
nat., bgs. lb. .15 - —
Salvadorian, Nat., bgs lb. .16 - —
Shellac, bleached, 6-needry, bgs., 1,500-lb. lots lb. .47 - —
dms., l.c.l. works lb 22 .20½
bbls., 1,500-lb. lots lb. .46 - —
kgs., 1,500-lb. lots lb. .47 - —
Bonedry shellacs prices for less than 1,500-lb lots 1c per lb higher for all packages.
Shellac, bleached, refd., bgs., 1,500-lb. lots lb. .56 —
bbls., 1,500-lb lots lb. .57 - —
kgs., 1,500-lb lots lb .58 - —
Shellac, orange, lemon, No. 1, bgs., 10-bg lots lb. .37 .39
lemon, No. 2, bgs., 10-bg lots, lb. .34 .37
superfine, bgs., 10-bg lots lb .32 .34
Shellac in 1 to 10-bg lots 1c per lb more.
Shingle stain oil, tar distillate, dms., c.l., works gal. .37 —
dms., l.c.l., works gal. .48 - —
tanks, works gal. .25 - —
Sienna, pigment, burnt, paper bgs., c.l., works lb. .06½- .18½
paper bgs., l.c.l., works lb. .06¾- .17¾
Raw, paper bgs., c.l., works lb. .06¾- .16¾
paper bgs., l.c.l., works lb. .07 .17
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., works ton 25.00 —
bgs., l.c.l., works, ex whse ton 45.00 -55.00
Silica, hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton 20.00 - —
bgs., l.c.l., works ton 25.00 - —
99½% 140 mesh, bgs., c.l., works ton 15.00 - —
bgs., l.c.l., works ton 20.00 - —
Silicon, tetrachloride, tech., dms., c.l., works lb. .20 - —
tanks, works lb. .15 - —
Silver, bullion, ingots, cs, Troy oz. .91⅜- —
Silver cyanide, bots., 1,000-oz lots, oz. .94¾- —
bots., 500-oz. lots oz. .95¼- —
bots., 100-oz lots oz. 96¼- —
Silver nitrate, CP, cryst., bots., 1,000 to 4,000 oz., f.o.b. works oz. .67¼- —
bots., 250-500 oz., same basis, oz. 67¾- —
USP granular silver nitrate 4c. per oz. higher.
Silver proteinate, mild, USP, 16-oz. bots oz. 1.46 - —
Snakeroot oil, Canada, cns lb. 40.00 -43.00
Soapbark, crushed, bls lb. .30 .35
Powd., bls. lb. .35 .40
Whole, bls. lb. .20 .25
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.90 —
paper bgs., l.c.l., stock pts., 100 lbs. 3.00 4.77
bulk, c.l., works 100 lbs. 1.60 —
Soda ash, light, 58%, paper bgs., c.l., works 100 lbs. 1.85 —
paper bgs., l.c.l., stock pts. 100 lbs. 3.95 4.72
bulk, c.l., works 100 lbs. 1.55 —
Soda, caustic, flake, 76%, dms., c.l., works, frt. equald 100 lbs. 5.20 - —
liq., 50% sellers' tanks works, dry basis 100 lbs. 2.90 —
50% rayon type sellers' tanks, works, dry basis 100 lbs. 2.90 3.00
Soda, caustic, liq., 73%, sellers' tanks works, dry basis, 100 lbs. 3.00 —
liq., 73% rayon type, sellers' tanks, works, dry basis lb. 3.00 3.10
solid, 76% dms., c.l., works, 100 lbs. 4.80 —
Soda, sal., conc., bgs., c.l., works, 100 lbs. 2.50 - —
bgs., smaller lots, works 100 lbs. 2.80 - —
Sodium acetate, anhyd., bgs., c.l., dlvd E lb. .14½- —
bgs., l.c.l., same basis lb. .16½- —
NF, 60% gran., dms., c.l., works, lb. .15½ —
dms., l.c.l., works lb. .17½- —
Sodium alginate, NF, white powd., dom., 300 lbs or more lb. 1.02 —
Sodium p-aminosalicylate, dms., 100-lb lots or more, frt. adjusted lb. 1.90 - —
Sodium antimoniate, bgs., c.l., dlvd, E lb. .27½- —
bgs., l.c.l., dlvd, E lb. .29 - —
Sodium arsenate, 60% arsenic pentoxide, 200 lb. dm., less than ton lots, f.o.b. works lb. .24 - —
ton lots or more, same basis, lb. .23½- —
Sodium arsenite, 94% soluble pink powder, 75% arsenious oxide, dealers, 100-lb dms., ton lots or more, f.o.b., works lb. .18½- —
1,600-1,900 dms., same basis lb. .19 - —
100-500 dms., same basis lb. .20 - —
Sodium ascorbate, dms., 100-kilos., dms., f.o.b. works kilo. 6.80 - —
less than 100-kilos kilo. 7.05 - —
Sodium benzoate, tech., dms., c.l., t.l., frt. alld lb. .35 - —
dms., l.c.l., same basis lb. .39 - —
USP, dms., c.l., t.l. frt. alld lb. .38 - —
dms., ton lots, same basis lb. .43 - —
dms., 1,000-lb lots, same basis, lb. .45 - —
Sodium bicarbonate, USP, gran., bgs., c.l., works 100 lbs 2.95 - —
bgs., l.c.l., works 100 lbs 3.85 - —
USP, powd., bgs., c.l., works, 100 lbs. 2.55 - —
bgs., l.c.l., works 100 lbs. 3.45 - —
Sodium bichromate, gran., bgs., c.l., t.l., works lb. .13 - —
bgs., l.c.l., works lb. .13½- .14¾
Sodium bichromate in dms ¾c. per lb higher
Sodium bifluoride, fib, dms., c.l., works, frt. equald lb. .19½- —
fib, dms., l.c.l., same basis lb. .2025- —
Sodium bisulfate, bulk, c.l., works, 100 lbs. 2.00 —
dms, c.l., frt. equald 100 lbs. 3.00 3.60
dms, l.c.l., frt equald 100 lbs. 3.50 4.10
Sodium bisulfite, annyd., bgs., c.l., works 100 lbs. 5.00 —
bgs., l.c.l., works 100 lbs. 5.45 - —
Soln., 35° bbls., c.l., works 100 lbs. 1.70 - —
bbls., l.c.l., works 100 lbs. 2.20 - —
Sodium borate (see Borax)
Sodium borohydride, powd., dms., c.l., works lb. 19.90 —
dms., l.c.l., works lb. 33.00 40.00
Sodium borohydride, stabilized water soln., 12% $NaBH_4$, 100% basis, dms., works lb. 15.00 - —
Pelletized sodium borohydride $1 per lb. higher in 1,000-lb lots.
Sodium bromide, USP, gran., dms., works lb. .40 - —
Sodium carbonate, cryst., monohydrated (see Soda, sal)
Sodium carbonate, monohydrated, bgs., c.l., works 100 lbs 3.10 - —
bgs., l.c.l., works 100 lbs. 3.50 - —
Sodium carboxymethyl cellulose (see CMC).
Sodium chlorate, cryst., 350-lb. dms., c.l., works lb. .09 —
dms., l.c.l., works lb. .09½- .10½
Sodium chlorate in 100-lb. dms., only, ¼c. per lb higher
Sodium chloride, tech. (see Salt).
Sodium chloride, USP, gran., bgs. lb. .05 - —
Sodium chlorite, tech., dms., c.l., works lb. .58 - —
dms. 20-dm lots or more works lb. .66 - —
dms., smaller lots, works lb. .70 .73
Sodium chloroacetate, tech., dms., c.l., works lb. .27 —
dms., l.c.l., works lb. .28 —
Sodium chromate, anhyd., fib, dms., c.l., t.l., works lb. .14¾- —
fib dms., l.c.l., works lb. .15¼- .16½
Sodium chromate, tetrahydrate, bgs., c.l., t.l., works lb. .1015- —
bgs., l.c.l. lb. .1065- .1190
Sodium citrate, anhyd., 200-lb. dm., f.o.b. works E lb. .62 —
NF VIII, gran., bgs., c.l., same basis lb. .26 - —
USP XIV, gran., bgs., c.l., same basis lb. .29 - —
Sodium citrate, USP, powd., prices ½c higher.
Sodium cyanate, dms., 1,000-lb. lots, works lb. .85 —
dms., smaller lots, works lb. .90 1.10
Sodium cyanide, briquettes or gran., 97 percent min., dms., works, 20,000-lb lots lb. .176 - —
dms., same basis, 5,000 to 19,999-lb lots lb. .188 - —
dms., same basis, 1,000 to 4,900-lb lots lb. .198 - —
Sodium cyclamate, 100-lb. dm., f.o.b. works lb. 1.95 - —
Sodium diacetate, anhyd., (9-41% acetic acid, dms., c.l., works lb. .18 —
250-lb. dms., c.l., works lb. 16¾- —
Tech., 33-35% acetic acid, dms., t.c.l., works lb. .15 —
250-lb. dms., t.c.l. works lb. .15¾- —
Sodium dimethyl dithiocarbamate, 40% soln., dms., c.l., t.l., frt. alld., 100% basis lb. .42 —
dms., l.c.l., t.l., same basis lb. .47 .52
tanks, same basis lb. .38 —
Sodium ferrocyanide, bgs., 10-ton lots lb. .13½- —
bgs., smaller lots lb. .14¾- —
Sodium fluoride, white, 97%, fib, dms., c.l., works, frt. equald lb. .1390- —
fib, dms., l.c.l., works, frt. equald lb. .1465- —
Sodium formate, bgs., c.l., works, 100 lbs. 7.00 - —
bgs., l.c.l., ex whse 100 lbs. 8.65 - —
Sodium gentisate, 100-lb. fib, dms. lb. 5.50 - —
Sodium gluconate, refd., 250-lb. dm., f.o.b. works E lb. .84 - —
Fech., bgs., c.l., t.l., same basis lb. .34 - —
Sodium hydride, 50% soln. in oil, dms., works lb. 1.25 - 2.50
25% soln. in oil, dms., 50 lbs. or less, f.o.b. shipping point, lb. 2.20 - —
dms., 50-99 lbs. same basis lb. 1.77 - —
dms., 100-999 lbs., same basis lb. 1.20 —
dms., 1,000 lbs. or more, same basis lb .95 —
Sodium hydrosulfide (see Sodium sulfhydrate).
Sodium hydrosulfite, dms., c.l., frt. alld lb. 23½ —
dms., l.c.l., frt. alld. lb. 25¾- —
Sodium hydroxide, NF, pellets, 100-, lb. dms.; 1 to 100-dm. lots, lb. .23½- .28
Sodium hydroxide, tech. (see Soda, caustic).
Sodium hypophosphite, NF, dms., 1,000-lb. lots lb. .99 - —
Sodium hyposulfite (see Sodium thiosulfate).
Sodium iodide, USP, 300-lb. dms., f.o.b. works lb. 2.13 - —
Sodium, lauryl sulfate, dms., c.l., dlvd lb. .20½- —
dms., l.c.l., dlvd. lb. .21½- —
tanks, dlvd. lb. .19½- —
Sodium lignin sulfonate, bgs., c.l., works 100 lbs. 4.25 6.50
c.l., bgs., works 100 lbs. 4.40 7.00
Sodium metabisulfite (see Sodium bisulfite).
Sodium metaborate octahydrate, gran., bgs., c.l., works, ton 210.00 —
bgs., ton lots, ex whse 100 lbs. 8.30 - —
bgs., smaller lots, ex whse 100 lbs. 9.61 -11.61
Tetrahydrate, bgs., c.l., works, ton 210.00 —
bgs., ton lots, ex whse 100 lbs. 14.83 - —
bgs., smaller lots, ex whse 100 lbs. 16.08 -18.08
Sodium, metallic, bricks, c.l., works, lb. .21 —
Fused, 18,000-lb lots or more, works lb. .19½- —
tanks, works lb. .17 - —
Sodium metalinate, bbls., frt. alld, lb .62 —
Sodium metaphosphate, bgs., c.l., f.o.b. shipping pt 100 lbs. 11.10 - —
bgs., l.c.l., same basis 100 lbs. 11.85 - —
dms., c.l., same basis 100 lbs. 11.70 - —
dms., l.c.l., same basis 100 lbs. 12.45 - —
Sodium metasilicate, anhyd., bgs., c.l., works 100 lbs. 5.70 - —
bgs., 6,000-19,900 lb lots, works, 100 lbs. 6.05 - —
dms., c.l., works 100 lbs. 6.20 - —
dms., l.c.l., works 100 lbs. 6.55 - —
Sodium metasilicate pentahydrate, bgs., c.l., works 100 lbs. 4.45 —
bgs., l.c.l., works 100 lbs. 4.80 6.75
dms., l.c.l., works 100 lbs. 4.95 —
dms., l.c.l., works 100 lbs. 5.30 7.25
Sodium molybdate, anhyd., dms., works, frt. equald lb. .92 .99
Cryst., dms., works frt alld lb .74 .76
Sodium monoglutamate (see Monosodium glutamate)
Sodium monohydrate (see Sodium carbonate monohydrated)
Sodium naphthionate, bbls. lb. .72 - —
Sodium nitrate, dom., crude, bgs., c.l., works ton 48.00 - —
bulk, c.l., works ton 44.00 - —
Imp., crude, 100-lb. bgs., c.l., Atl., Gulf, Pac., whse ton 48.00 - —
bulk, c.l., same basis ton 44.00 - —
Sodium nitrite, USP, bbls., c.l., works, frt. equald 100 lbs 9.00 - —
bbls., l.c.l., same basis 100 lbs. 11.00 - —
Sodium orthosilicate, conc., dms., c.l., works 100 lbs. 6.70 - —
dms., l.c.l., works 100 lbs. 7.05 7.65
Hydrated, flake, bbls., c.l., works, 100 lbs. 5.65 —
bbls., l.c.l., works 100 lbs. 7.60 7.90
Sodium oxalate, 88%, bgs., works, 100 lbs. 12.35 - —
99%, bgs., works 100 lbs. 15.40 - —
Sodium para-aminobenzoate (see Sodium p-aminobenzoate)
Sodium para aminosalicylate (see Sodium p-aminosalicylate)
Sodium pentachlorophenate, briquets, dms., c.l., works, frt. equald lb. .26 - —
dms., l.c.l., same basis lb. .27½- .34
Pellets, dms., c.l., same basis lb. .26 - —
dms., c.l. same basis lb. .27½- .34
Powd., dms., c.l., same basis lb. .25 - —
dms., l.c.l., same basis lb. .26½- .33
Sodium pentahalbital, USP, dms., 100 lbs. or more lb. 6.00 —
Sodium perborate, NF, tech., bgs., c.l., works lb. .18½- —
bgs., l.c.l., works lb. .19 - .21
Sodium peroxide, dms., c.l., t.l., dlvd E, of Miss lb. .21½- —
dms., l.c.l., same basis lb. .22 - .22½
Sodium phenobarbital, USP, 100-lb. dms lb. 3.75 —
Sodium phenosulfonate, USP, IX, gran., dms lb. .52 - .53
NF, powd., dms lb. .55 - .56
Sodium phosphate, dibasic, anhyd., bgs., c.l., frt equald 100 lbs. 8.10 - —
bgs., l.c.l., same basis 100 lbs. 8.50 - 9.55
Sodium phosphate, dibasic, cryst., bgs., c.l., t.l., frt equald 100 lbs. 4.75 - —
bgs., l.c.l., frt. equald 100 lbs. 5.15 - 5.90
Dibasic, duohydrate, bgs., c.l., frt. equald 100 lbs. 7.75 - —
bgs., l.c.l., same basis 100 lbs. 8.25 - —
Monobasic, anhyd., bgs., c.l., frt. equald 100 lbs. 9.15 - —
bgs., l.c.l., same basis 100 lbs. 9.55 -10.15
Tribasic, anhyd., bgs., c.l., frt. equald 100 lbs. 9.15 - —
bgs., l.c.l., frt. equald 100 lbs. 9.60 -10.20
Sodium phosphate in dms 60c to 80c, higher than bgs
Sodium phosphate, USP, dried, powd., bgs., dms., works lb. .19 - .20½
Sodium picramate, tech., paste, dms., f.o.b. works, frt. equald lb. .90 - —
Sodium propionate, any quantity, dms., dlvd E of Rockies, lb. 34½- —
Prices W of Rockies 3c per lb more.
Sodium prussiate, yellow (see Sodium ferrocyanide)
Sodium pyrophosphate, acid, bgs., c.l., works, frt. equald 100 lbs. 11.25 - —
bgs., l.c.l., same basis 100 lbs. 12.00 -12.50
Sodium pyrophosphate, ferric, dms., c.l., t.l., works lb. .36 —
dms., l.c.l., works lb. .37 .39
Tetrabasic, anhyd., bgs., c.l., works, frt. equald 100 lbs. 7.55 - —
bgs., l.c.l., same basis 100 lbs. 8.30 - —
Sodium salicylate, USP, dms., 1,000-lbs or more lb. 78½- —
dms., less than 1,000 lbs, dms lb 81½- —
Sodium sesquicarbonate, bgs., c.l., works 100 lbs. 2.35 - —

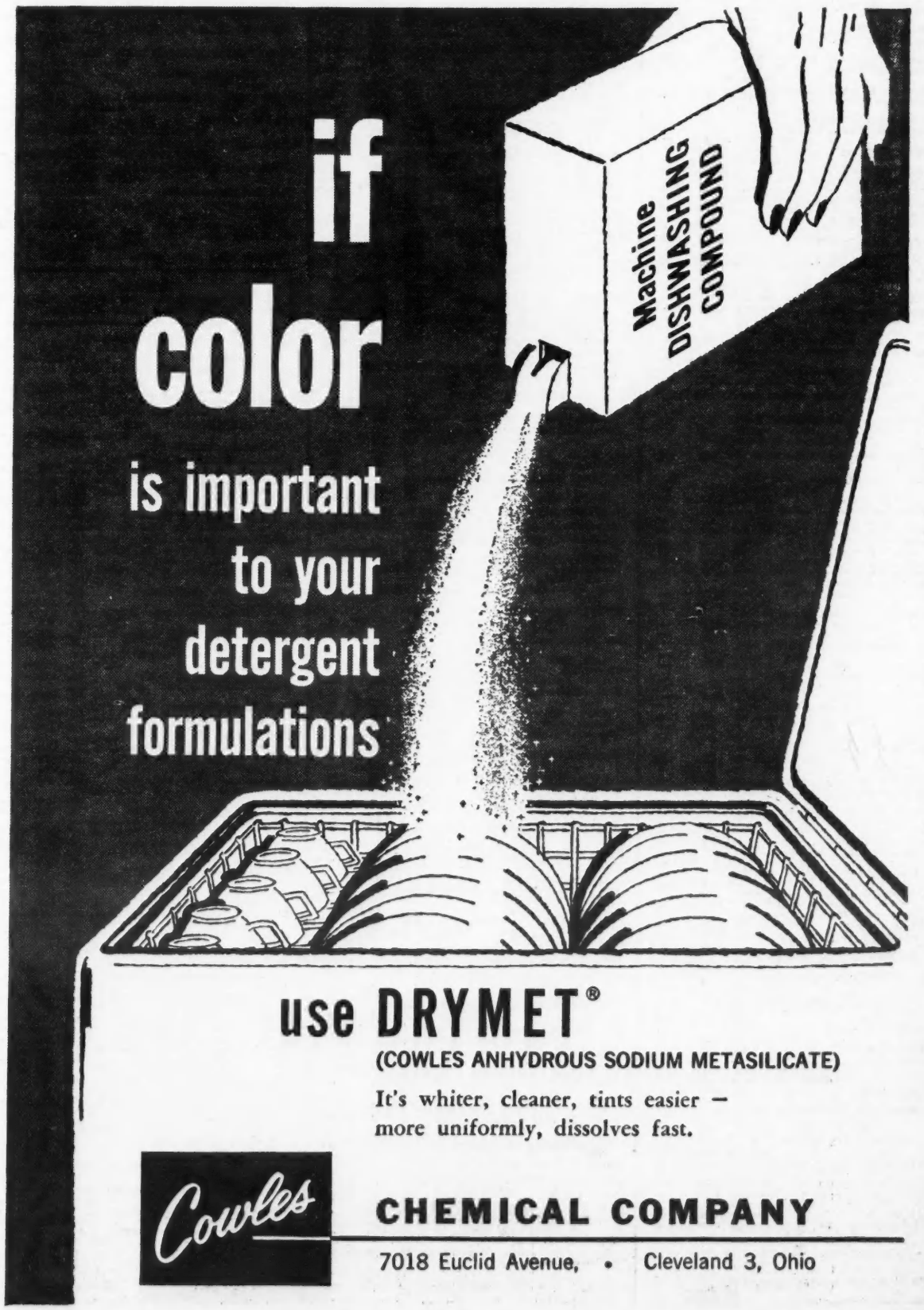
Sodium sesquicarbonate, bgs., l.c.l., divd., zone 1 100 lbs. 4.10 4.35
divd. zone 2 ..... 100 lbs 4.35 4.60
divd. zone 3 ..... 100 lbs. 4.75 4.90
divd zone 4 ..... 100 lbs 5.35 5.60
Sales zones are (1) Atl. states E. of Miss., R and N of south bound of Ky. and Va., Ala., La., and Miss. south of 31°; Tex E. of 100°; S. of 31° Fla.; also Me., N. H. and Vt. in which there are special county zones; Davenport, Ia., and St Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport) Minn., Mo. (except St. Louis) Neb. E. of 98° N. C., S. C., Tenn and Tex. N of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No of 31°; (3) Ark W of 96° Kan., Neb W. of 98° N D., Okla., S. D., Tex., W of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah Wyo and El Paso Tex

Sodium sesquisilicate anhyd., bgs., c.l. t.l. works 100 lbs 5.70 - —
dms. c.l. t.l. works 100 lbs 6.20 - —
Sodium sesquisilicate hydrated, bgs. c.l works 100 lbs 5.00 - —
bgs. 6,000-19,900 lb tots, works 100 lbs 5.35 - —
dms. c.l. works 100 lbs 5.50 - —
dms. 6,000-19,900 lb tots works, 100 lbs 5.85 - —
Sodium silicate, liq., 40° Be. 1:3.2, turbid dms. c.l. works, 100 lbs 1.65 —
dms. c.l. works 100 lbs 1.90 2.40
tanks works 100 lbs 1.20 —
47° Be 1:2.9 turbid, dms., c.l., works 100 lbs 2.25 —
dms. c.l. works 100 lbs 2.60 3.45
tanks, works 100 lbs 1.90 —
52° Be 1:2.4 turbid, dms., c.l., works 100 lbs 2.65 —
dms., c.l. works 100 lbs 3.00 3.50
tanks works 100 lbs 2.30 —
Solid, 1:3.2 bgs works ton.67.50 —
Sodium silicofluoride, bgs., c.l., works lb. .065 —
bgs. l.c.l. works lb 725 —
Sodium silicofluoride in dms. 0.4c per lb. higher
Sodium stannate dms. works, frt. alld., E lb. .648 - .707
Sodium sulfa drugs (see Sulfa name)
Sodium sulfanilate bbls. works lb. .22 —
Sodium sulfate NF VII. dried, powd., dms lb. .22½ - —
Tech., anhyd bgs c.l. divd E. ton.56.00 - —
Sodium sulfate, tech., detergent, rayon grade, bgs., c.l., works ton.38.00 - —
bulk, c.l., works ton.34.00 - —
USP cryst. fib dms lb .17½ - .18
Sodium sulfhydrate, flake 70-72%, dms c.l works, frt. equald lb. .07¼ - —
dms. l.c.l. same basis lb. .08¼ - —
Liq. 40-44% tanks works, 100% basis ton.130.00 —
Sodium sulfide, flake, dms., c.l., works, E, frt equald lb. .06 - —
dms. l.c.l., same basis lb. .07 - —
Fused, bbls, c.l works, E., frt. equald lb. .05½ - —
bbls. l.c.l., same basis lb. .06½ - —
Sodium sulfite anhyd., powd., bgs., c.l works 100 lbs. 7.55 —
bgs l.c.l. same basis 100 lbs 7.95 —
Sodium sulfide, anhyd., tech., bgs., c.l., works 100 lbs. 3.50 - —
bgs. t.l. same basis 100 lbs 4.00 —
Sodium sulfocyanide CP (see Sodium thiocyanate)
Sodium tetraborate (see Borax)
Sodium tetrasulfide, liq., 40%, dms., c.l., works frt equald lb. .04½ - —
dms. l.c.l. same basis lb. .05½ - —
Sodium thiocyanate CP, dms lb. .55 .65
Tech anhyd dms., 1 ton lots or more, works lb. .367 - —
dms. less than ton lots, works lb. .387 - —
Sodium thiosulfate NF cryst. bbls. lb. .13½ - —
Tech. anhyd. 100-lb bgs. c.l., t.l., frt equald 100 lbs. 7.75 —
100-lb bgs l.c.l. t.l.l., frt. equald 100 lbs. 8.15 - —
Sodium thiosulfate tech., anhyd., photo grade, 64-lb bgs., c.l. t.l. frt. equald lb. .0775 - —
64-lb bgs. l.c.l. t.l.l., frt. equald lb. .0815 - —
Tech., pentahydrate, photo grade, 100-lb bgs., c.l., t.l., frt. equald 100 lbs. 4.95 - —
Sodium thiosulfate tech., pentahydrate, photo grade, 100-lb. bgs. l.c.l., t.l.l., frt. equald 100 lbs. 5.20 - —
Sodium titanate, ctns c.l. works, lb. .14¼ —
ctns. 5-ton lots, works lb. .14½ —
ctns., 1-ton lots or less, works lb. .14¾ - —
Sodium trichloroacetate, 90%, 100-lb dms c.l. frt alld E. lb. .35 —
50-lb dms., c.l., frt. alld. E lb. .35½ - —
10-lb ctns., c.l. frt alld E lb .42 —
Prices on Sodium trichloroacetate W of the Rockies are 1¾c per pound higher
Sodium tripolyphosphate bgs., c.l., works, frt. equald 100 lbs. 7.90 - —
bgs., l.c.l., same basis 100 lbs. 8.65 - —
Sodium trisilicate powd., 1:3.2, bgs., c.l., works 100 lbs 8.95 —
bgs., l.c.l., works 100 lbs 9.70 -13.13
dms., c.l., works 100 lbs 9.45 —
dms., l.c.l., works 100 lbs 10.20 -10.60
Sodium tungstate tech. kgs. divd. E lb. 1.32 - —
Sodium-ammonium phosphate, purif., cryst. dms. works lb. .52 - —
Sodium-carboxymethyl cellulose (see CMC).
Sodium-cinchophen (see Cinchophen-sodium).
Sodium formaldehyde sulfoxylate dms., t.l., divd lb. .22½ - —
dms., l.t.l., same basis lb. .23 - —
Sodium-zirconium silicate, fib dms. 1,000-lb lots or more works lb .28 —
fib dms. smaller lots, same basis lb .30 - —
Solvent naphtha, coaltar, high-flash, tanks, frt equald gal. .30 .35½
Solvent naphtha petroleum, straight aromatic, 310°-360°F b.r., 14°-16°C. m.a.p., tankcars, New Jersey and New York gal. .29 - —
Houston, Texas gal. .29 - —
355°-420°F. b.r., 17°-18°C. m.a.p., tankcars, New Jersey and New York, gal. .30 - —
Houston, Texas gal. .30 - —
Solvent naphtha, petroleum, partial aromatic, 211°-265°F b.r., 31°C. m.a.p. tankcars, New Jersey and New York gal. .235 —
286°-340°F b.r., 22°C m.a.p., tankcars, New Jersey and New York gal .275 - —
Solvent naphtha, 319°-380°F b.r., 27°C. m.a.p., tankcars, New Jersey and New York gal. .27 - —
322-395°F b.r., 25°C m.a.p., tankcars, New Jersey and New York gal. .26 - —

Sorbitan monostearate, fib dms., 20,000-lb. lots, works lb. .23½ - —
fib. dms., 10,000 to 20,000-lb lots, works lb. .25½ - —
fib, dms., smaller lots, works lb. .38½ - .40½
Sorbitan tristearate, fib dms., 20,000-lb. lots, works lb. .34 - —
fib. dms., 10,000 to 20,000-lb. lots, works lb. .36 - —
fib. dms., smaller lots, works lb. .39 - .41
Sorbitol, NF, reg., 70% aqueous, dms., c.l., works lb. .18 - —
dms., l.c.l., works lb. .19 - —
tanks, works lb. .16¼ - —
cryst., resin grade, pellets, dms., c.l. works lb. .23 - —
dms., 1 to 5-ton lots works, lb 25 .26
powd., dms., c.l., works lb. .38½ - —
dms., 10,000 to 20,000 lb. lots, works lb .40½ —
Sorbitol, soln., comyl., aqueous, dms., c.l. works lb. .26 - —
dms., l.c.l., works lb. .27 - —
tanks, works lb. .23¼ - —
Soya protein, chemically isolated, old process, bgs., c.l., works, lb. .23 —
bgs., l.c.l., works lb. .23¼ .23½
Chemically isolated, new process, bgs c.l. works lb .20 —
bgs., l.c.l., works lb .20¼ - .29½
Soybean meal, 44% bulk, unrestricted, Decatur ton.65.00 - —
Soybean oil, crude, tanks, Decatur, lb. .12½ - —
Foots, soapstocks, acid 95%, tanks, lb. .06 - —
Refd., alkali, dms. lb. .16¾ - .17½
tanks lb. .14¾ - —
Clarified, dms. lb. .16¾ - .16¾
tanks lb. .14¾ - —
Refd., salad, dms. lb. .16¾ - .17½
tanks lb. .14¾ - —

Soybean oil acids, dbl. dist., dms., lb. .16¾ - .19¼
tanks lb. .14¼ - —
S. D., dms lb. .15½ - .18
tanks lb. .13 - —
Sparteine sulfate, cns., 100 oz. or more oz. .80 - —
Spearmint leaves, dom., bls lb. .75 - —
Spearmint oil, NF, dms lb. 6.50 - —
Sperm oil, bleached winter, 45°, dms lb. .1675 - .1775
tanks lb. .1475 - —
Nat., winter 45°, dms lb. .1575 - .1675
tanks lb. .1375 - —
Spermaceti wax, blocks, cs. lb. .32 .33
Cakes, cs. lb. .33 .34
Spruce oil, cns., dms. lb 2.10 3.55
Squill, white, bls. lb .16 .18
Powd., bbls. bxs. lb. .17 - .20
St. John's bread, edible, bls. lb .17 - —
Stannic chloride, anhyd dms. works lb. .817 - .839
Stannic oxide, dms., divd. lb. 1.10 - 1.11
Stannous chloride, anhydrous, works lb. 1.013 - 1.268
works lb. .87½ - .88½
Stannous sulfate, dms., works lb. 1.067 - 1.087
Star root (see Helonias root)
Stargrass root (see Aletris root.)
Stavesacre seed, bgs lb. .60 .61
Stearic acid, dbl., pressed, bgs. lb. .16½ - .19
Single-pressed, bgs. lb. .16 - .18½
Triple-pressed, bgs. lb. .18¼ - .20¾

Stoddard solvent, petroleum, tanks, east coast, New Jersey, New York gal. .18 - —
tanks, Houston gal. 1475 - —
tanks, group 3 gal 12875 —
Stramonium leaves, bgs. lb. .16½ .18
Streptomycin sulfate, bulk, gram 03 .032
Strontium bromide, NF, cryst., gran., 150-lb. dm. frt. equald lb. 1.00 - —
Strontium carbonate, pure dms 5-ton lots or more works lb 35 —
dms. 1-ton lots, works lb 37 —
Tech., dms., works lb 19 —
Strontium chromate fib dms. divd lb 48 —
Strontium iodide jars, 25-lb lots lb 3.57 —
Strontium nitrate bgs. c.l. works 100 lbs 11.00 —
bgs. l.c.l., works 100 lbs 12.00 —
Strontium salicylate NF, dms lb 1.83 —
Strontium sulfate air floated, 90% 325 mesh bgs works ton.56.70 66.15
Strophanthin G (see Quabain, USP)
Strophanthin K bots. oz 25.00 25.50
Strophanthus seed, Kombi, biologically tested, bgs lb. 2.50 - 3.00
Styrax gum USP cs lb 4.50 5.50
Styrene monomer, polymer grade, 99.6% dms. c.l. frt alld. lb 17 —
dms., l.c.l., same basis lb 19 —
tanks, same basis lb .14½ —



use DRYMET®
(COWLES ANHYDROUS SODIUM METASILICATE)
It's whiter, cleaner, tints easier — more uniformly, dissolves fast.

Cowles CHEMICAL COMPANY
7018 Euclid Avenue, • Cleveland 3, Ohio

Styrene monomer, tech., 99.2%, dms., c.l., frt. alld . . . lb. .1509- .1709
dms., t.c.l., same basis . . . lb. .1709- .1959
tanks . . . lb. .1259- .1459
Above prices are escalated for each calendar quarter on the basis of cost of benzene and petroleum refining labor.

Styrolyl acetate, bots . . . lb. 1.03 1.10

Succinic acid purif., cryst., dms., t.l., frt. alld . . . lb. .62 .75
dms., t.l., same basis . . . lb. .63 .75

Succinic anhydride dms., c.l., t.l., divd . . . lb. .51 .59
dms., t.c.l., same basis . . . lb. .52 .59

Sucrose, refd. white ngs. refy & bgs. . . . lb. .0955-

Sucrose acetate, isobutyrate, 90%, dms. t.l., divd . . . lb. .33½-
dms., t.t.l., same basis . . . lb. .35 .39
tanks, same basis . . . lb. .31 .35
100%, t.l., dms., divd, . . . lb. .35½- .39½
t.t.l. dms., same basis . . . lb. .37 .41

Sucrose octa-acetate, denaturing grade 100-200-lb. lots, bgs. t.c.l., works lb 1.00

Sugar (see Sucrose)

Sugar cane wax dom., refd., slabs, 80-lb ctns., works lb .60 .65
80 lb ctns. spot lb .65 .75

Sulfabenzamide, dms . . . kilo 8.80 9 90
Sulfabenzamide-sodium, dms . . . kilo 9.00 10.10
Sulfacetamide USP fib dms . . . kilo 6.61 6.83
Sulfacetamide-sodium USP, fib. dms . . . kilo 8.15 9.25

Sulfadiazine USP, microcrystals, dms . . . kilo 23.35 24 45
USP, powd. dms . . . kilo.22 60 23 70
Sulfadiazine sodium USP dms . . . kilo.24.80 25.90
Sulfaguanidine NF X dms . . . kilo 5.50 6.60
Sulfamerazine-sodium USP, powd., dms . . . kilo.24.80 25.90
Sulfamethazine USP XV microcrystals, dms . . . kilo.19.65 20.75
USP XV powd. dms . . . kilo.18 75 19.85
Sulfamic acid cryst. dms., c.l., t.l., works 100 lbs.16.00 —
dms. t.c.l., t.t.l. works 100 lbs.17 50 18.50
Gran., dms., c.l., t.l., works 100 lbs.14.75 —
dms. t.c.l. t.t.l. works 100 lbs 16 25 17.25
Sulfanilamide NF reg. 1,000 lb., frt. equald lb 1.50
NF fib dm. frt equald lb 1.55
Sulfanilamide quinoxaline, veterinary dms kilo.16.28
Sulfanilic acid tech. dms. c.l., frt. alld lb. .21 .23
dms., t.c.l., frt alld lb. .23 .25

Sulfapyridine USP XV powd., bots., tins kilo.15.45 16.55
Sulfapyridine-sodium monohydrate, dms kilo.16 55 17.65

Sulfathiazole NF X. microcrystals, dms kilo 6.25 6.90
NF X. powd. dms. kilo 5.50 6.15

Sulfathiazole-sodium, NF X, dms., 1,000-lb. lots or more lb. 2.35

Sulfur, comi. flour, bgs., mines. 100 lbs 2.35
bbls., mines . . . 100 lbs 3.30
lump, bgs., mines . . . 100 lbs 2.25
bbls., mines . . . 100 lbs 2.80

Sulfur crude dom. bright, bulk, f.o.b cars, mines long ton.23.50
export, f.o.b vessels, Gulf ports, long-ton.25.00
US and Canada, f.o.b vessels Gulf ports long-ton.25.00

Domestic dark sulfur prices are $1 per long-ton lower

Sulfur, crude, imp. Mexican, bulk, filtered, f.o.b., vessel, Coatzacoalcos long-ton.24.00

Mexican dark sulfur price is $1 per long-ton lower

Sulfur, refd., flowers, NF, bgs., mines 100 lbs 5.65
bbls., mines 100 lbs 7.00
flour, light, bgs., mines 100 lbs 5.25
bbls., mines 100 lbs 6.25
lump, bgs., mines 100 lbs 4.95
rolls, bgs., mines 100 lbs 5.50
bbls., mines 100 lbs 6.25
salt block, bgs., mines 100 lbs 4.65
virgin block, bbls., mines 100 lbs 4.70

Sulfur rubbermakers, comi., reg., bgs., mines 100 lbs 2.45
bbls., mines 100 lbs 3.70
99-100% passing through 325 mesh, bgs. mines 100 lbs 2.55
bbls., mines 100 lbs 3.80

Sulfur, rubbermakers, refd., bgs., mines 100 lbs 4.90
bbls., mines 100 lbs 6.05
treated, 2.5% mineral oil., bgs., mines 100 lbs 2.75
bbls., mines 100 lbs 4.00

Sulfur dichloride, ret. dms., c.l., works, frt. equald lb .05¼-
ret. dms., t.c.l., same basis lb .06¼-
tanks, same basis lb .04½-

Sulfur dioxide, liq. comi., cyls., works, frt. equald lb .10 .12
multi-unit cars, works lb .0535-
tanks, works lb .045

Sulfur dioxide refrigeration, cyls., divd lb .33

Sulfur monochloride, 55-gal. non-ret. dms., c.l., frt. equald lb. .05¼-
dms. t.c.l. same basis lb. .06¼-
tanks same basis lb. .04½-

Sulfuric acid, 60° Be, cbys., c.l., works 100 lbs 2.00
cbys., t.c.l., works 100 lbs 2.30
tanks, works ton 18 60

Sulfuric acid, 66° Be, cbys., c.l., works 100 lbs. 2.25
cbys., t.c.l., works 100 lbs 2.55 3.35
tanks, works ton 22.35
98% tanks, works ton.23.50
99% tanks, works ton 23 70

Sulfuric acid 100%, tanks, works ton.23.95

CP NF consumers cbys., c.l., frt. equald lb. .12¾-

Sulfuric acid, CP, NF consumers', cbys. t.c.l., same basis, lb. .14¼ .14¾

8-pt bots. extra, cs., c.l., works, frt alld lb. .16¼-
8-pt bots. extra cs. t.c.l., same basis lb. 17¾- .18¾

Sulfuric acid fuming (oleum), 20% tanks, works ton 25 00
40% tanks, works ton 29 00
65% tanks works ton 39 50

Superphosphate, run-of-pile under 22% a.p.a., pulv., bulk, c.l., Baltimore unit-ton 90 93
bulk, c.l., Carteret, N. J. unit-ton 90 93
Superphosphate triple, 48% or more a.p.a., pulv. bulk, c.l. East Tampa, Fla. unit-ton 1.00
bulk t.c.b vessel at Fla unit-ton 1 05

Sweet birch oil, USP, northern cns lb 4.00 9 50
USP, southern, cns lb 2.00 3.05

T

2,4,5-T, dms. c.l., works, frt. equald. lb 1.18
dms. t.c.l., same basis lb 1 25

2,4,5-T, isopropyl ester, dms., c.l., works, frt. equald lb. 1.24
dms., t.c.l., works lb. 1.29

Talc, dom., fibrous, grd., bgs., c.l., works, New York ton.28.00
bgs., t.c.l., works ton.31 00 -30.00
fibrous, 99.5%, 325 mesh, bgs., c.l., works, New York ton.31.00
bgs., t.c.l., works ton.34.00
Talc, dom., fibrous, 99.95%, 400 mesh, micronized bgs., c.l works ton.38.00
625 mesh, micronized, bgs., c.l works ton.80 00
Talc, dom., ord., Calif., grd., bgs., c.l., works ton.34.00 -39.50
Vermont, off-color, grd., bgs., c.l., works ton.19.40
bgs., t.c.l., works ton.37 00
Imp. Canadian, grd. bgs., c.l. mines ton.20 00 -35 00
tanks, works lb. .02⅞- .03⅛

Tall oil, crude, tanks, works lb. .03 .03¼
Dist. depending on grade, dms., c.l., works lb. .07 - .09¼
Tall oil, refd., depending upon grade, dms., c.l., works lb. .07¾- .08¼
tanks, works lb. .05¾- .07½

Tall oil acids, dms., c.l., works lb. .07 - .10
dms., t.c.l., works lb. .07½- .10½
tanks, works lb. .05 - .07½

Tallow, edible, tanks, dlvd lb. .11¼- .11⅜
Inedible, fancy, bleachable, tanks, lb. .06⅞- .07⅛
fancy, guaranteed, bulk, f.o.b. steamer lb. .07½- .07⅝
dms., f.a.s. lb. .08½- .08⅝
tanks, dlvd. lb. .07⅜- .07½
No. 1, dlvd lb. .06⅛- .06¼
Prime, tanks, dlvd lb. .06⅝- .06⅞
Special tanks, dlvd lb. .06⅜- .06½
Sulfonated, 25%, bbls., t.c.l. lb. .08½- .08¾
50%, bbls., t.c.l. lb. .10½- .11

Tallow acids, dist., dms lb. .13 - .15½
tanks lb. .10½- —
Hydrogenated, dms. lb. .15¼- .17¾

Tallow oil, acidless, dms. c.l. lb. .13½- —
dms., t.c.l lb. .14½- .15½

Tangerine oil. Florida, dms lb 4.75 —

Tankage, animal, teeding, 9-11% ammonia New York bulk unit-ton. 4.75 5.00

Tannic acid. NF, fluffy, bbls., 1,000-lb lots lb 2.05
bbls., smaller lots lb 2.06 2.07
NF powd. bbls., 1,000-lb lots lb 1.95
bbls smaller lots lb 1 96 1.99
Tech dms lb 1.05
Tansy oil, dms lb 6.60 8.00

Tar acid oil, 15-18%, dms., c.l., dms., t.c.l., same basis gal. .55½-
tanks, same basis gal. .43½- —

Tar acid oil 25-28% dms., c.l., same frt equald gal. .53½-
basis gal. .60
dms., t.c.l., same basis gal. .62
tanks, same basis gal. .50
50-53%, dms. c.l., same basis gal. .75
dms., t.c.l., same basis gal. .77
tanks same basis gal. .65

Tar, coal (see Coaltar).

Tartar emetic (see Antimony potassium tartrate).

Tartaric acid NF 100-lb bgs., c.l., frt. equald lb. .41
bgs. 10,000 lbs. 1 shipt., same basis lb. .43
bgs., smaller lots, same basis lb. .47

Terpine hydrate, NF, cryst., powd., 100-lb fib. dms lb. 70
Terpineol, extra, dms lb. .50 .60
Prime, dms. lb. 40 .50
Terpinyl acetate, extra, cns., dms. lb. .64 .75
Prime, dms lb. .53 .58
Terpinyl propionate, dms . . . . . lb. 1.65 1.70

Testosterone, USP bots. gram No prices.
Testosterone propionate, USP bots. gram No prices.

Tetrachloroethane dms., works lb 14½ —
Tetrasodium pyrophosphate (see Sodium pyrophosphate)
Tetrachloroethylene, tech. (see Perchloroethylene)
Tetrachloroethylene, USP, 55-gal. dms., c.l., t.l., works lb. .20½- —
dms. t.c.l., works lb. .22 .23½
Tetraethyl orthosilicate, dms., c.l., divd E lb. .60
dms. t.c.l. divd E lb. .61½- —
Tetraethyl pyrophosphate, 40%, cns., dms. frt equald lb. .75
Tetraethylenepentamine, dms., c.l., divd. E lb. .53½- —
dms., t.c.l., divd. E lb. .55
tanks, divd E lb. .51

Tetraethylthiuram disulfide, tech., dms. frt alld lb. 1.04

Tetrahydrofuran, dms. c.l., t.l., works lb .38½- —
dms., t.c.l., or t.t.l., works lb. .37
tanks, works lb. .35

Tetrahydrofurfuryl alcohol, dms., c.l., t.l., Memphis, Tenn. lb. .31½- —
dms., t.c.l., Memphis, Tenn lb. .32½- —
dms. c.l. t.l., Newark, N.J. lb .33½ —

Tetrahydrofurfuryl alcohol, dms., t.c.l., Newark, N. J. . lb. .34½- —
tanks, divd E of Denver lb 31 —
tanks, divd W of Denver lb .32 —

Tetrahydrophthalic anhydride dms., c.l., t.l. frt alld E lb. .39 .41
t.c.l., t.t.l. same basis lb. .41 —

Tetrapotassium phosphate (see potassium phosphate)
Thallium metal, divd lb. 7.50 10.00
Thallium sulfate, 99% bots. divd. lb 5.00 10 00

Theobromine, NF fib dms 100 lbs. f.o.b., works lb. 4.10 4.15
Theobromine and sodium acetate, USP, fib dms. 500-lbs. works lb 6.45

Theobromine, sodio-salicylate NF, fib dms., 500-lbs. works. lb 3.80

Theophylline, USP, anhyd. 100-lb dms., frt alld lb 3.65

Thiamine hydrochloride, USP fib. dms., frt alld kilo.36.60
USP, ampule grade, fib., dms., frt alld kilo 38 00

Thiamine mononitrate, USP fib dms frt alld kilo 36 00

Thiocarbanilide, dms., ton lots lb 74
dms., less ton lots lb 76

Thiodiphenylamine (see Phenothiazine)

Thioflavin green toner, brilliant, molybdated, PMA. kgs., works lb 5.20
Tungstated, PTMA, kgs works lb 6 20

Thioglycolic acid, refd. 55 gal dms., ton lots, 100% basis lb 1.15

Thiosalicylic acid, 80% dms 1,000-lb. lots, works lb 4.00

Thiourea, tech. bgs. t.l. frt alld lb. .30
bgs., ton lots, same basis lb 32
bgs., less than ton lots, same basis lb. 33

Thorium nitrate, purif., fib dms., 100-lb. lots or more, works lb. 3.50

dl-Threonine, dms., 100 kilos, works. kilo.121.00

Thyme leaves, French, triple sifted extra, bgs lb. .27
Spanish, extra, bgs lb. .12
triple sifted, bgs. lb. .12
Spanish, bgs. lb. .25
Thyme oil, NF, red, cns., dms. lb. .99
NF, white, cns lb. 2.00
Tech., white, cns. lb. 2.20
Thymol, fib dms. 25-lbs., f.o.b. works lb. 2.45 -

Thymol iodide, NF dms. 100-lbs f.o.b. works lb. 7.30

Timbo root (see Cube root).
Tin chloride (see Stannous chloride, anhyd.)
Tin crystals (see Stannous chloride, hydrous).
Tin metal (Straits) . . . . . lb. 1.03
Tin oxide (see Stannic oxide)
Tin sulfate (see Stannous sulfate).
Tin tetrachloride anhyd (see Stannic chloride, anhyd.)

Titanium dioxide anatase ceramic, bgs., c.l., divd lb. .25½-
bgs., t.c.l., divd lb. .26½-
reg., bgs., c.l., divd. lb. .25½-
bgs. t.c.l. divd. lb. .26½-
metallurgical, nat., bgs., c.l., f.o.b Jacksonville Fla ton.180.00
Titanium dioxide, metallurgical, nat., bgs., 5-ton lots, Niagara Falls, N. Y ton.205.00
bgs. ton lots same basis ton.215.00

Milled metallurgical titanium dioxide $7 50 per ton higher

Titanium dioxide, rutile, nonchalking, bgs., c.l., divd E lb. .27½-
bgs. t.c.l., divd E lb. .28½-

Titanium dioxide-calcium pigment, 30% Ti O_2, reg., bgs., c.l., works divd lb. .09⅜-
bgs., t.c.l., works lb. .09⅞-
50% Ti O_2, high-tinting, dms., c.l., dms. t.c.l. lb. .14⅜-
Titanium hydride, powd., dms., works lb. 8.10 9.00

Titanium tetrachloride, tech., dms., c.l., works lb. .26
dms., t.c.l., works lb. .27½- .29
tanks, works lb. .20

Tobias acid, dms., c.l., t.l. . . . . lb. .81
dms. t.c.l. . . . . lb. .84

d-a Tocopherols, NF, mixer, conc., pure basis bots kilo.67.00

d-a-Tocopheryl acetate, NF, cone., pure basis, bots kilo.122.00

d-a-Tocopheryl acid succinate, cryst., bots kilo.109.00

dl-a-Tocopherol, bots. kilo.99.00
dl-a-Tocopheryl acetate, bots kilo.90.00
25% dry. powd., bots kilo.22.50 -24.00
33% dry. powd. bots. kilo.30.00 -31.50
o-Tolidine base dry. kgs., 100% basis lb 1.55
Paste, kgs., 100% basis lb 1.50

TOLUOL

Toluol quotations, both coaltar and petroleum, may be found under Toluene.

o-Tolidine hydrochloride paste, kgs., 100% basis lb. 1.50
Tolu balsam, cns lb. 4.00
Toluene, coaltar, indust., or nitration, tanks, dlvd. E. of Rockies gal. .25½-
Toluene, petroleum indust., tanks, f.o.b., frt. equald gal. .25
p-Toluenesulfonamide, powd., dms., t.l., works lb. .60
dms., t.t.l., same basis lb. .63
Toluenesulfonic acid, 55-gal. dms., t.l., frt alld lb. .16
1,000-lb or more, same basis lb. .18
less than 1,000-lb., same basis lb. .23
tanks, same basis lb. .14
Toluenesulfonic acid in 10-gal. dms., 2c. per lb more.
p-Toluenesulfonic acid mononydrate, dms., c.l., or t.l lb. .90
dms., 125 lbs. to t.l. lb. 1.00
m-Toluidine, dms. c.l., works, frt. alld lb. .83
dms., t.c.l., same basis lb. .84
tanks, same basis lb. .82
o-Toluidine, dms., c.l., works, frt. alld lb. .30
dms., t.c.l., same basis lb .31
tanks, same basis lb. .28
p-Toluidine, tech. flake, dms., frt. alld lb. .50
Cast, dms., frt. alld. lb. .45
p-Toluidine-m-sulfonic acid, dms., works lb. .92 - 1.04
Toluidine red toner, deep shades, kgs., works lb. 1.70
Light shades, kgs, works lb. 1.70
2,4-Tolylenediamine, cryst., fib. dms., t.c.l., frt alld lb. 1.10
Tonka beans, Angostura, cks. lb. 1.50
Brazilian, Surinam cs lb. 1.30
Totaquine, 100-oz tots, cns. oz. .42
Toxaphene, dms., c.l. t.l., works. lb. .22
dms. t.c.l. t.t.l., works lb. .28
Tragacanth gum, No. 1, ribbons, cs lb 4.10 4.20
No 2, cs. lb. 3.75 3.80
No. 3, cs. lb. 3.40 3.65
USP powd. bbls. lb 1.05 1.15
Triacetin, dms., c.l., dlvd. E. of Rockies lb. .39
dms., t.c.l., same basis lb. .40
tanks, same basis lb. .37
Triallylamine, dms., c.l., divd lb. .985
dms., t.c.l., dlvd. lb. .995
tanks, divd lb. .96
Tributyl citrate, tech., non-ret. dms., c.l., frt alld E of Denver. lb. .42½-
non-ret. dms., t.c.l., frt. alld. E. of Denver lb. .43½-
tanks, frt alld E of Denver lb. .40
Tributyl phosphate, dms. c.l., works. dms, t.c.l., same basis lb. .52½-
tanks, same basis lb. .53½-
Tributylamine dms., c.l., works lb. .67½-
dms., t.c.l., same basis lb. .69
tanks, same basis lb. .65
Tributyrin dms t.c.l. divd lb. .69
Trichloroacetic acid, tech., 300-lb. dms. c.l., f.o.b works lb. .52
USP, 100-lb. dms., frt. equald lb. 1.25
Trichlorobenzene dms. c.l. frt. alld. & lb. .15
tanks, frt. alld E lb. .16
Trichlorobenzene prices in the West 1¾c. higher.
1,1,1-Trichloroethane, dms., c.l., divd. lb. .13¼-
dms., t.c.l., divd lb. .16
tanks, divd lb. .12¼-
1,1,2 Trichloroethane, dms., c.l., works lb. .15½-
dms., t.c.l., works lb. .16¼-
tanks, works lb. .13½-
Trichloroethylene dms., c.l., or t.l., divd lb. .12½-
dms., t.c.l., divd. lb. .14 - .14½
tanks, divd. lb. .11¼- —

Trichloroisocyanuric acid, dms., c.l., t.l., frt. equald lb. .48
dms., t.c.l., same basis lb. .78
Trichlorophenoxyacetic acid (see 2,4,5-T).
Tricholine citrate, 65% soln., ret. chys., works, frt. adjusted. lb. 1.40 - 1.48

Tricresyl phosphate, coaltar, dms., c.l., divd lb. .35
dms., t.c.l., divd. lb. .36
tanks, divd. lb. .32½-
Tricresyl phosphate, petroleum, dms., c.l., divd lb. .35
dms., t.c.l., divd. lb. .36
tanks, divd. lb. .32½-

Tridecyl alcohol, mixed isomers, dms., c.l., divd. E lb. .26½-
dms., t.c.l., divd. E lb. .28
tanks, divd E lb. .24

Triethanolamine, dms., c.l., divd E. lb. .24½-
dms., t.c.l., same basis lb. .26
tanks, same basis lb. .22

Triethanolamine lauryl sulfate, dms., c.l., t.l., frt. alld lb. .25½-
dms. t.t.l. frt. alld. lb. .26½-
tanks, frt alld lb. .24½-

Triethylamine dms., c.l., divd E. lb. .50
dms., t.c.l., same basis lb. .51½-
tanks, same basis lb. .47½-

Triethyl citrate, refd., tech., non-ret. dms., c.l., frt alld E. of Denver lb. .46¼-
non-ret dms., t.c.l., frt alld. E. of Denver lb. .47¼-
tanks, frt alld E. of Denver, lb. .43¾-

Triethyl phosphate, dms., c.l., divd. lb. .40½-
dms., t.c.l., divd. lb. .42
tanks, divd. lb. .38

Triethylene glycol, dms., c.l. divd. E lb. .21
dms., t.c.l., divd. E lb. .22½-
tanks, divd. E lb. .18½-

Triethylenetetramine, dms., c.l., divd. E lb. .51½-
dms., t.c.l., divd. E lb. .53
tanks, divd. E lb. .49

Triisobutylene, tanks, divd. lb. .08

Tri-isopropanolamine, dms., c.l., divd. E lb. .23¼-
dms., t.c.l., divd. E lb. .24¾-
tanks, divd. E lb. .20¾-

Trimethylamine, anhyd., cyls., t.c.l., frt. equald, 100% basis lb. .30
tanks, frt. equald. 100% basis, lb. .26
25-40% soln., dms., c.l., frt. equald, 100% basis lb. .35
dms., t.c.l., frt. equald. 100% basis lb. .35½-
tanks, 100% basis, frt. equald lb. .26

Trimethylolpropane, dms., c.l., t.l., divd. E lb. .30½-
dms., t.c.l., t.t.l., same basis lb. .31½-

Trioxanes, pure, dms., c.l., t.l., works lb. .50
dms. t.c.l., works lb. .51½-

Tripentaerythritol, bgs., c.l., t.l., divd. E lb. .34
bgs., t.c.l., t.t.l., divd. E lb. .35

Triphenyl pnosphate, bbls., c.l., frt. equald lb. .41½-
bbls. t.c.l. frt equald lb. .43½-

Triphenylguanidine, bbls., works lb. .90
Tripropylene dms., c.l., divd. E gal. .44
dms., t.c.l., same basis gal. .54
tanks, same basis gal. .28

Tripropylene glycol, dms., c.l., t.l., frt alld E lb. .20½-
dms., t.c.l. t.t.l. frt. alld E lb. .22
tankcars and compartmented tankcars, frt alld E lb. .17½-

Tripropylene glycol, tankwagon and compartmented tankwagons, 1,000 gals min. frt. alld. E lb. .18

Tripropylene glycol prices 1c per lb higher in west.

Trisodium phosphate (see Sodium phosphate tribasic)
dl-Tryptophane, dms., 1 kilo, works. kilo.154.00

Tung oil, dms., New York . . . . . lb. .31½- .32
tanks, imported . . . . . lb. .29½ Nom.
tanks, domestic, mills . . . . . lb. .29½ Nom.
Tungsten metal powd., 2.0-2.5 microns, dms., works lb. 4.25
Tungstic acid tech., dms., 1,000-lb lots, works lb 2.25
dms. smaller lots, works lb 2.45
Turkey red, bbls, works lb 62
Turpentine, gum (see Protective Coatings market Naval Stores).
Turpentine oil NF cns. dms lb .28 .50
Tuscan red bbls. frt equald lb .26 .32
Tyrothricin, USP, 1 to 5 kilos gram .50

U

Ultramarine blue, cobalt type, dry or pulp, 250-lb bbls., divd. E. of Rockies lb. .30½- .35
Jobbing types, dry, bbls., same basis lb. .16 .22½
Regular types, dry bbls. same basis lb. .16 .37½

Ultramarine blue prices 1c higher W of Rockies.

Umber pigment, burnt, American, bgs., c.l., works lb. .07½- .07¾
bgs. t.c.l. works lb. .07¾- .08
Umber pigment, burnt, turkey-type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y lb. .08¼-
Raw, American, bgs., works lb. .07¾- .08¼
Turkey-type, bgs. works lb 08½- .08¾

Undecylenic acid 55-gal. dms., f.o.b. works lb. 1.28

Unicorn root, false (see Helonias root).
Unicorn root, true (see Aletris root).

Urea 46% N. indust, bgs., c.l., t.l., f.o.b. plant ton.100.00
45% N, agricultural, bgs., c.l. f.o.b. plant ton.90.00

Urea-ammonia liquor A, B & C grades, N basis tanks
37 grade, tanks, same basis ton.120.00
Urethane USP dms., t.l., f.o.b., works lb .65
dms., t.t.l., same basis lb .70
Uva-ursi leaves, bls lb .12

V

Valerian root, Belgian bgs. . . . lb .32
Indian, bgs lb .25
dl-Valine, dms., 1 kilo, works kilo.37.00
Vanadium pentoxide, tech dms. works lb. 1.38
Vanicke brown bbls works lb 9½ 12
Vanilla beans, Bourbon, tins . . . . . lb. 6.85 - 7.10
Mexican cuts, tins . . . . . lb. 7.25 - 7.50
whole, tins . . . . . lb. 7.65 - 8.50
Vanillin ex lignin, 100-lb. fib. dms., 2,000-lb. lots or more lb. 3.00
less than 2,000 lbs . . . . . lb. 3.20 3.30
Venetian red, jobbing, bgs. works. lb. .0475-
25% bgs., works . . . . . lb. .0525-
30% bgs., works . . . . . lb. .0575-
35% bgs., works . . . . . lb. .06
40% bgs., works . . . . . lb. .0625-

Vetiver oil, Bourbon, cns. ..... lb. 17.00 -17.25
Haitian, cns. ..... lb. 12.00 -14.00
Victoria blue toner, molybdated, PMA 250-lb. bbls., dlvd. E. of Rockies lb. 4.50 - 4.90
Tungstated, PTMA, 250-lb. bbls., dlvd. E. of Rockies lb 5.55 - —
Victoria blue toner, bbls., prices 1c. higher W of Rockies.
Vinyl acetate monomer, zone 1, 55-gal. dms., c.l., dlvd lb. .1810- —
55-gal. dms., l.c.l., dlvd lb. .1960- —
tanks, dlvd. lb. .1560- —
tanktrucks less than 4,000 gal., dlvd lb. .1610- —
Vinyl n-butyl ether, tech. dms., l.c.l., works lb. .50 - —
Vinyl chloride monomer tanks, works, min. frt. equald. E. lb. .0891- —
Vinyl ether, USP, anethesia, bots., 50cc., hospitals bot 1.12 - —
bots., 75cc. hospitals bot 1.56 - —
Vinyl ethyl ether, tech., dms., c.l., works lb. .30¼- —
dms., l.c.l., works lb. .31 - —
tanks, works lb. .28¼- —
Vinyl propionate monomer, dms., c.l. dlvd lb. .49 - —
dms., l.c.l., same basis lb. .50 - —
tanks, same basis lb. .47 - —
Vinyl trichloride (see Trichloroethane).
2-Vinylpyridine, 10 dms to tanks, works lb 1.20 - —
1 to 9 dms., works lb 1.35 - —
tanks, works lb 1.15 - —
Vinyltoluene, dms., c.l., f.o.b., works. lb. .16½- —
dms., l.c.l., same basis lb. .18½- —
tanks, f.o.b dest. frt prepaid lb. .14 - —
Viosterol in nat. vegetable oil, 1,000,000 D units per gram, bots., lots of 10 billion USP units 1,000,000 units. .02½- —
Virginia type red, bbls., works lb. 1.40 - —
Vitiamin A acetate, syn., cryst., beads 500,000 A units per gram gram .07¼- —
Vitamin A acetate, dry, 500,000 units per gram, kilo lots kilo. 65.00 - —
325,000 units per gram, same basis kilo. 43.88 - —
250,000 units per gram, same basis kilo. 33.75 - —
Dry vitamin A acetate in less than kilo lots, $1.25 to $2.50 per kilo higher
Vitamin A, liq. in oil, 1,000,000 A units per gram 1,000,000 units. .09¼- —
Vitamin A palmitate, liq., 1,000,000-1,800,000 A units per gram 1,000,000 units. 09½- —
Vitamin B_1 (see Thiamine hydrochloride).
Vitamin B_2 (see Riboflavin and Yeast).
Vitamin B_{12}, cryst., USP (cyanocobalamin). 1-50 grams, vials, tins gram. 45.00 - —
Vitamin B_{12}, 0.1% vitamin B_{12}, USP, adsorbed on gelatin, 100 and 500-gram bots on 1-5 kilo, dms., gram. .57 - —
Vitamin B_{12}, 0.1% vitamin B_{12}, USP, adsorbed on resin, 100 and 500-gram bots., 1-5 kilo dms. gram. .57 - —
Vitamin B_{12}, oral grade solids in containers of 1 and 10 gram of B^{12} activity gram. 52.00 - —
0.1% trituration of cryst., B_{12} with dicalcium phosphate or mannitol, 1-10 kilo. 52.00 - —
0.1% trituration of cyanocobalamin, USP, with dicalcium phosphate or mannitol gm. 52.00 - —
USP solution of cyanocobalamin (500 micrograms per cc.) gram. 52.00 - —
Vitamin B_{12}, 0.1% cobalamin concentrate, NF adsorbed on resin 500-gram bots. 1-5 kilo. dms., frt. alld gram. .57 - —
0.1% cobalamin concentrate in gelatin 1-10 kilo dms., frt. alld gram. .57 - —
Vitamin C (see Ascorbic acid).
Vitamin D_2 (see Codliver and Fishliver oils, Calciferol and Viosterol).
Vitamin D, dry, 850,000 units per gram, kilo lots kilo. 42.50 - —
850,000 units per gram less than kilo lots kilo. 45.00 - —
Vitamin E (see a-Tocopherol and Wheat germ oil).
Vitamin H (see Biotin).
Vitamin K, active (see Menadione).
Vitamin K_1, 25-gram lots gram. 4.50 - —
Violet methyl toner (see Methyl violet toner).
VM&P naphtha (see Naphtha, VM&P, petroleum).

W

Wahoo root bark, bls. ..... lb. 2.00 - 2.25
Warfarin, 0.5% dms., 50-lb. lots, dlvd lb. 1.95 - —
dms., 25-49-lb. lots, New York or Chicago lb. 2.05 - —
dms., 5-24-lb lots, New York or Chicago lb. 2.15 - —
Watchung-type reds., bbls lb. 1.95 - —

WAXES
Wax quotations are listed individually. For example, prices on Wax, carnauba, may be found in the C's under Carnauba wax.

Wheat germ oil, 5-gal. dms. gal. 12.25 - —
White lead (see Lead, white).
White mineral oil (see Mineral oil, white).
White pine bark, rossed, bls. lb. .21 - .22
White precipitate, USP, powd., dms., 100 lbs. f.o.b works lb 5.50 - —
Whiting (see Calcium carbonate).
Wild cherry bark, thin, nat., bls lb. .30 - —
Wintergreen oil, USP nat northern, cns lb. 6.35 -17.50
USP nat southern cns lb. 3.75 7.00
Wintergreen oil, syn. (see Methyl salicylate).
Witch hazel bark, bls ..... lb. .30 - .35
Witch hazel leaves, bls lb. .75 - .80
Wollastonite, fine, paint grade, bgs., c.l., works ton. 41.00 - —
bgs., l.c.l., ex whse ton. 51.00 - —
Medium, paint grade, bgs., c.l., works ton. 29.00 - —
bgs., l.c.l., ex whse. ..... ton. 39.00 - —
Wood alcohol (see Methanol).
Wood oil (see Tung oil).
Woolfat crude (see Degras).
Woolfat USP (see Lanolin).
Wormseed Levant bgs ..... lb 2.50 - —
Wormseed oil (see Chenopodium oil NF).
Wormwood oil, cns ..... lb. 4.75 - —

X

Xylene coaltar, indust., tanks, works:
Bethlehem, Pa. ..... gal. .29 - —
Birmingham dist. ..... gal. .29 - —
Chicago dist. ..... gal. .28½- —
Cleveland dist. ..... gal. .29 - —
Xylene, coaltar, indus., tanks, works:
Geneva, Utah ..... gal. .29 - —
Johnstown, Pa. ..... gal. .29 - —
Lackawanna, N.Y. ..... gal. .29½- —
Lone Star, Tex ..... gal. .27 - —
Lorain, Ohio ..... gal. .29 - —
Middletown, Ohio ..... gal. .30 - —
Xylene, coaltar, indust., tanks, works:
Minnequa, Col. ..... gal. .29 - —
Philadelphia dist. ..... gal. .29 - —
Pittsburgh dist. ..... gal. .29 - —
Sparrows Point, Md. ..... gal. .29 - —
Terre Haute, Ind. ..... gal .29 - —
Youngstown, Ohio ..... gal. .29 - —
Xylene, petroleum, indust., tanks f.o.b. works:
Bayonne, N. J ..... gal. .29 - —
Baytown, Tex. ..... gal. .27 - —
Charleston, S. C. ..... gal. .29 - —
Chicago, Ill ..... gal. .28½- —
Detroit, Mich., dlvd .. gal. .27½- .29
Houston, Tex. ..... gal. .27 - —
Philadelphia, Pa. ..... gal. .29 - —
Providence, R. I. ..... gal. .30 - —
Sewell's Point, Va. ..... gal. .28 - —
Wood River, Ill ..... gal. .28½- —
m-Xylene, 95%, dms., c.l., f.o.b., Richmond, Calif lb. .21 - —
dms., l.c.l., f.o.b., Richmond, Calif lb. .22 - —
tanks, frt. alld. ..... lb. .19 - —
o-Xylene, dms., c.l., works ..... lb .08 - —
dms., l.c.l., works ..... lb. .09 - —
tanks, works ..... lb. .06 - .06½
p-Xylene, dms., c.l., works ..... lb. .20 - —
dms., l.c.l., works ..... lb. .21 - —
tanks, frt. alld. ..... lb. .1645- —
Xylenol, cryst., 45°-47°C., m.p., dms., l.c.l., works, frt. equald lb. .23 - —
56°-58°C., m.p., dms., l.c.l., works, frt. equald lb. .33 - —
Xylenol, cryst., 60°-62°C., m.p., dms., l.c.l., same basis. lb. .40 - —
Xylenol fraction, b.r. 7°-9° C., dry above 227° C., dms., c.l., same basis gal. 1.25 - —
dms., l.c.l., same basis gal. 1.30 - —
tanks, same basis gal. 1.05 - —
b.r. 7°-9° C., dry at or below 227° C., dms., c.l., same basis. gal. 1.35 - —
Xylenol fraction, b.r. 7°-9° C., dry at or below 227° C., dms., l.c.l., same basis gal. 1.40 - —
2,4-Xylidine, tech., dms., frt. alld. lb. 1.15 - —
2,5-Xylidine, tech., dms., frt. alld. lb. 1.20 - —
Xylidines, mixed, o-m-p, dms., c.l., or t.l., works lb .39 - —
dms., l.c.l., same basis lb .40 - —
tanks, same basis ..... lb. .38 - —

XYLOL
Xylol quotations, both coaltar and petroleum, may be found under Xylene.

Y

Yara yara oil, cns. ..... lb 2.15 - 3.05
Yeast, brewers, debittered, USP XV, Saccharomyces, dlvd lb. .27 - —
Yeast, brewers, primary, USP XV, 150 mcg. B^1 per gram, 100-lb. dms lb. .47 - —
USP XV, 270 mcg., B_1 per gram, 100-lb. dms lb. .52 - —
Yeast, brewers, primary, USP XV, 300 mcg., B_1 per gram, 100-lb. dms lb. .56 - —
USP XV, 900 mcg., B_1 per gram 100-lb. dms. lb 60 - —
Torula, USP dlvd. ..... lb 18 - —

YELLOW PIGMENTS
Yellow pigment quotations are listed individually. For example, prices on Yellow, benzidine, may be found in the B's under Benzidine yellow

Yerba santa leaves, bls. ..... lb .40 .45
Ylang-ylang oil, Bourbon, bots lb. 7.00 22.00
Ylang Ylang oil, Bourbon, extra bots lb. 24.00 33.00
Yohimbine hydrochloride, bots., tins oz. 3.75 4.25

Z

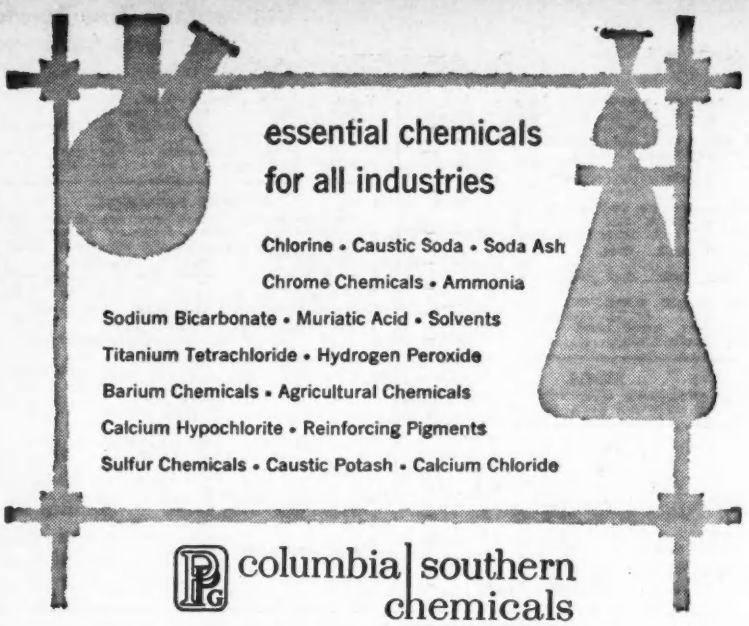
Zein, 50-lb. bgs., c.l., t.l., f.o.b. works lb. .37 - —
50-lb. bgs., smaller lots, f.o.b. works lb. .41 - .44
Zinc acetate, NF, VIII, dms lb .53 —
Tech. dms., l.c.l., works lb. .29¼ —
Zinc borate bgs. 1,000 lbs or more, works lb. .25 —
bgs., less than 1,000 lbs., same basis lb. .27 —

—Continued on page 34

PAPER IS MORE USEFUL...THANKS TO COLUMBIA-SOUTHERN CHEMICALS

Paper plays an increasingly important role in our daily activities. We use it in packaging... in cigarettes ...in building... in photography... in decorating... plus the traditional uses as a writing and printing material. In prospect for the future... paper clothing! ¶ The greater versatility of this ancient commodity is due, in large part, to advances made by the chemical industry. New developments in pulp and paper processing utilize such basic Columbia-Southern Chemicals as chlorine, caustic soda, hydrogen peroxide, soda ash and silica pigments. Many other industries use Columbia-Southern Chemicals... from PPG. Perhaps there's a place for Columbia-Southern Chemicals in *your* business.

columbia | southern chemicals
CHEMICAL DIVISION
PITTSBURGH PLATE GLASS COMPANY
ONE GATEWAY CENTER PITTSBURGH 22, PENNSYLVANIA
DISTRICT OFFICES: Boston • Charlotte • Chicago • Cincinnati • Cleveland Dallas • Houston • Minneapolis • New Orleans • New York • Philadelphia Pittsburgh • San Francisco • St. Louis • IN CANADA: Standard Chemical Limited

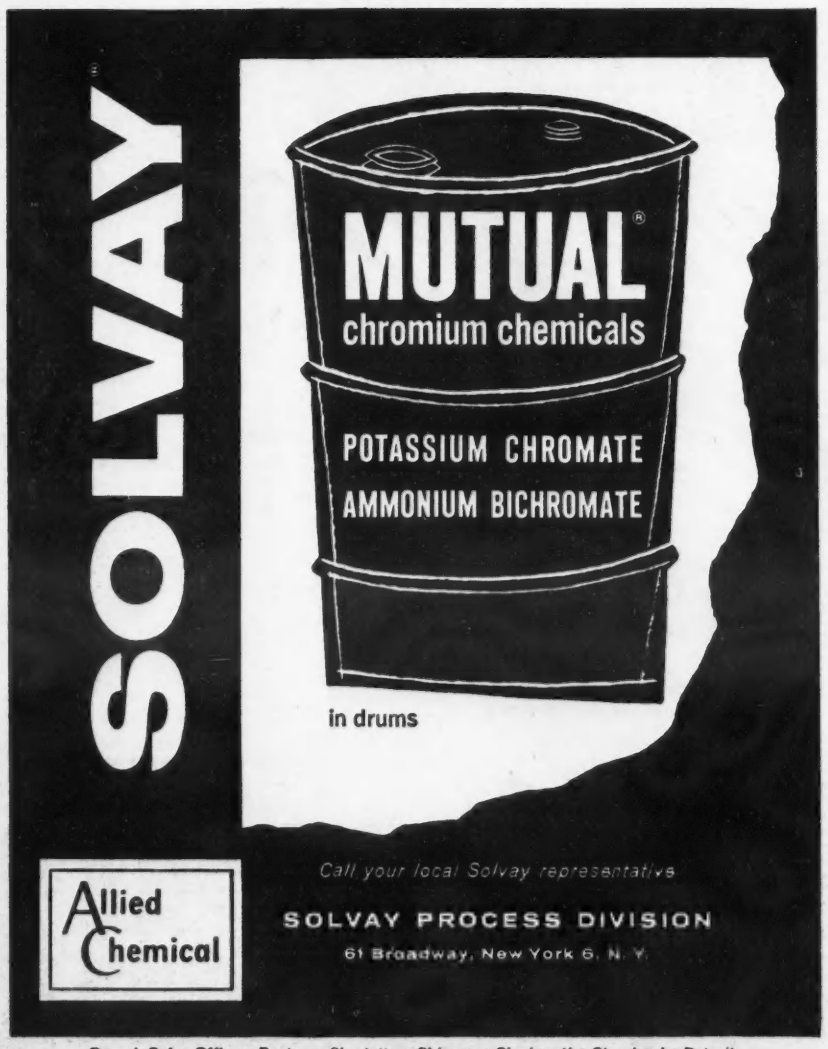

essential chemicals
for all industries
Chlorine • Caustic Soda • Soda Ash
Chrome Chemicals • Ammonia
Sodium Bicarbonate • Muriatic Acid • Solvents
Titanium Tetrachloride • Hydrogen Peroxide
Barium Chemicals • Agricultural Chemicals
Calcium Hypochlorite • Reinforcing Pigments
Sulfur Chemicals • Caustic Potash • Calcium Chloride
columbia southern chemicals
CHEMICAL DIVISION
PITTSBURGH PLATE GLASS COMPANY
ONE GATEWAY CENTER PITTSBURGH 22, PENNSYLVANIA

ACETIC ACID

F. H. Ross & Co.

MUrray Hill 2-7136
155 E. 44th Street • New York 17, N. Y.

EXpress 2-2121
3930 Glenwood Drive • Charlotte, N. C.



Branch Sales Offices: Boston • Charlotte • Chicago • Cincinnati • Cleveland • Detroit
Houston • New Orleans • New York • Philadelphia • Pittsburgh • St. Louis • San Francisco • Syracuse

Heavy Chemicals

Sodium sulfate makers, 71 percent of whose product moves to the kraft paper industry, are studying a report just issued by the president of the Kraft Paper Association covering the price and inventory position of that industry. Kraft paper makers were hit hard when the recession struck late last year, the report states, and operations were reduced to 75 percent of capacity, in contrast to 100 percent in May. The shrinkage was general throughout the industry, it is noted, but thanks to the boom earlier in the year, particularly in the grocery bag line, the industry was able to ship 2.8 million tons of unbleached kraft during the year as a whole, only 1.5 percent under the record level set in 1959.

However, the report adds, the "volume story unfortunately does not present the whole picture." As business declined during the last half of 1960, the industry's file of orders was sharply reduced while its inventories were simultaneously increased. As a result, the start of 1961 saw "very strong competition" within the industry "and a certain amount of price weakness."

The report closes with a prediction that 1961 business should exceed that of 1960 by a small margin. This optimistic view is based on the fact that customers have depleted their inventories together with an easing of the keen competition of the recent past and a noticeable improvement in the industry's operating statistics.

The American Paper and Pulp Association reported production for the week ended Feb. 18, at 87.7 percent of theoretical capacity, as compared with the revised figure of 91.9 percent for the previous week and 98.5 percent for the corresponding week of last year.

Price Trends

Advanced

Tin (Straits) metal, 2c. per lb.
Salts, 2/3c. to 1c. per lb.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Feb. 26, 1960
106.81	106.81	106.85	106.82

For Current Prices See Page 11

Acids

Boric—Producers express general satisfaction with the sales level chalked up during these recession days, noting that a diversified end-use pattern has kept the acid from being hit hard.

Chromic—Business is rated fair and prices steady. Automobile output, the only real trouble spot noted by trade sources, shows scant signs of improvement because of producers' long inventory position.

Hydrochloric—The loss of steel business, owing to Pittsburgh's prolonged downturn, has been partially offset by brisk demand in food processing and oil treating outlets, it was reported. Prices remain as previously, with some shading in response to competitive byproduct acid.

Hydrofluoric—Booming exports have helped keep the aluminum production throttle wide open, assuring a good market for HF. While competition is said to be brisk, prices have withstood the scramble for markets.

Nitric—Captive material is moving briskly into plant food production, but, in contrast, open market nitric has run into the snag of lagging steel.

Phosphoric—Currently one of the strongest acids, thanks to a good fertilizer market, this material was produced in the amount of 170,062 tons in December, a sharp rise over the previous December's 160,673 tons.

Sulfuric—Trade observers are keeping an eye on this acid to see if it responds to the recent advance in sulfur quotations. So far, they say, the response has been stymied by the poor steel market. Also, the sulfur boost hasn't yet hit all sulfuric makers, since it doesn't become effective until contracts fall due.

Steel output during the week ending February 18 totalled 1,582,000 tons, a heartening advance over the previous week's 1,524,000 tons, American Iron & Steel Institute reports.

Bases and Salts

Caustic Soda—One maker reports that January sales were better than those of December, but slightly off from the level of a year ago.

For the industry as a whole, Census Bureau reports December output of liquid caustic soda at 387,945 short tons, down from November's 403,377 tons and down from last December's 404,147 tons.

Output of dry soda was 48,145 tons in December, as against 50,003 the month before and 42,393 in December 1959.

As to effects of the current recession, a general but minor lag has been noted by some sources, and there has been no conspicuous downturn in any particular outlet.

Chlorine—Prices are judged steady at the higher levels that went into effect a year ago April. There has been no indication as yet of price action for the second quarter. One observer said that in view of the business downturn a strengthening of prices is unlikely even though profit margins may be less than satisfactory.

Calcium Chloride—Because of the rough weather, water treatment requirements have been brisk this winter, giving a good boost to the calcium chloride market. Prices are reported steady, supplies adequate.

Copper Sulfate—Production of copper sulfate in the US in December dropped 29 percent, and shipments were off 27 percent, the Bureau of Mines reports. Production totalled 3,946 tons, and shipments 3,224 tons.

With production 700 tons greater than shipments, stocks rose 15 percent, Mines notes. The resulting inventories were sufficient for almost two months' requirements at the December rate of shipments.

Imports in December were 70 tons, of which 50 came from Belgium-Luxembourg and 20 from Mexico. Exports totaled 2,279 tons, Mines reports.

Hydrogen Peroxide—Output in December totalled 2,541 short tons, as compared with 2,566 the month before and 2,800 a year earlier, according to Census Bureau figures.

Soda Ash—Glass making and other outlets were preceding almost normally, pointing to a fair quarter but below the level of last year, sources in the trade reported.

Census Bureau reports soda ash output in December at 341,655 short tons, a sharp decline from the 402,309 tons turned out in December 1959.

Sulfur—Producers here in the east have their eyes on two major outlets where trouble looms:

- Steel-making, chief outlet for sulfuric acid in the east, remains lethargic. If this situation begins to hit sulfuric hard, sulfur will also feel the effects.
- Automobile production has been cut back, meaning decreased demand for original equipment tires. But rubbermakers' sulfur is backed by a strong, almost recession-proof replacement market, which helps take the sting out of a downturn in original tire demand.

Nonferrous Metals

Copper—Worldwide refined copper production rose to 321,548 tons in January from 318,740 the month before; but deliveries declined to 314,439 tons from 316,974, with the result that the level of world stocks climbed to 436,889 tons from 427,782.

In other figures issued by the Copper Institute, US refined production for the month is tallied at 144,697 tons, up from 152,211; deliveries at 99,794 tons, up from 91,163, with stocks rising to 144,132 tons from 139,272 a month earlier.

Mercury—Business remained slow, and prices held steady at $208 to $211 a flask for large lots (20 flasks or more), prompt shipment.

Silver—Prices has been long unchanged at 91⅜c. a troy ounce, spot.

Tin—Straits metal was up sharply from the previous week, closing Friday at $1.03 a pound.

Tin consumption in the US decreased 2 percent in November to 3,035 long tons from 3,290 the month before, the Bureau of Mines reports. Brass mills consumed 60 long tons, as compared with 70 in October.

Look to BECCO first for

Ammonium Persulfate
Potassium Persulfate
as well as
• Hydrogen Peroxide
• Peracetic Acid • Sodium Perborate
• and other Peroxygen Chemicals
Write for list of free technical bulletins.
BECCO Chemical Division
Food Machinery and Chemical Corporation
161 East 42nd Street, New York 17, New York

HEXACHLOROETHANE

AMERICAN FIRSTOLINE CORP.
855 AVENUE OF THE AMERICAS
NEW YORK 1, N. Y.
Phone: OXford 5-6556
Cable Address: FIRSTOLINE, N. Y. • TWX: NY1-2765

MANUFACTURERS OF
COPPER OXIDE
Republic
Chemical Corp.
94 Beekman St., New York 38
Telephone REctor 2-9810

Jobs & People

Allied Chemical Corporation, New York—**Henry W. DeVore** has been appointed assistant to the vice-president of sales. **Larry H. Austin, Bruce W. Carney** and **James Ferguson** have been made district sales managers at Los Angeles, New York and Chicago, respectively.

Distillation Products Industries, Rochester, N. Y., a division of Eastman Kodak Company—**Dr. George Y. Brokaw,** head of the distillation development laboratory, has been named a senior research associate.

Freeport Sulphur Company, New York—**Jean Mauze,** vice-president of United States Trust Company, has been elected a member of the board of directors.

General Aniline & Film Corporation, New York—**Arthur J. Young** has been elected treasurer, succeeding **Albert E. Hendershot** who is retiring.

Koppers Company, Pittsburgh, Pa. —**John J. Guth,** quality control superintendent of the plastic film plant in Los Angles, has been elevated to plant superintendent.

Sun Chemical Corporation, New York—**Robert J. Filippine** has been named general sales manager of the eastern building materials division of A. C. Horn Companies, a Sun division.

Union Carbide Chemicals Company, a division of Union Carbide Corporation, New York—**D. M. Yoder** has been appointed to the agricultural chemicals technical development staff.

Winthrop Laboratories, New York —**Dr. Nathaniel S. Ritter** has been appointed associate director of medical research.

K2CO3

There are seven different ways to buy Hooker carbonate of potash: Hydrate regular, 83.5 to 84.0%; calcined regular, 99.2 to 99.6%; calcined regular powder in fine, medium and coarse sizes; powder at 91 to 94% strength; and liquid 47 to 52%. Dry forms in barrels, fiber drums, bags, and 50-ton hopper cars. Liquid in drums or tank cars. Write for data sheet.

HOOKER CHEMICAL CORPORATION
802-4 FORTY-SEVENTH STREET, NIAGARA FALLS, NEW YORK
SALES OFFICES: BUFFALO CHICAGO DETROIT LOS ANGELES NEW YORK NIAGARA FALLS PHILADELPHIA TACOMA WORCESTER, MASS.
IN CANADA: HOOKER CHEMICALS LIMITED, NORTH VANCOUVER, B. C.
HOOKER CHEMICALS PLASTICS

Phibro

INDUSTRIAL CHEMICALS

a new source for

DICYANDIAMIDE

Available for immediate delivery at all times . . . . from warehouse stocks, at attractive prices.

FOR METALS & PLATING

DEGREASING TRICHLORETHYLENE
NICKEL SULPHATE
NICKEL CHLORIDE
NICKEL CARBONATE
SODIUM CYANIDE
POTASSIUM CYANIDE
ZINC CYANIDE
COPPER CYANIDE
PERCHLORETHYLENE
CARBON TETRACHLORIDE
CADMIUM ANODES
ZINC ANODES
CHROMIC ACID
CADMIUM OXIDE
NICKEL ANODES
POTASSIUM NITRATE

In Carloads and less Carload Drums, Barrels, Bags

HOLBROOK, MASS.
BOSTON 10, MASS.
MIDDLETOWN, CONN.
PROVIDENCE 3, R. I.
PHILADELPHIA 6, PA.
BALTIMORE 1, MD.
CHICAGO 1, ILL.

Philipp Brothers Chemicals, Inc.
COLISEUM TOWER BUILDING
10 COLUMBUS CIRCLE · NEW YORK 19, N. Y. · JU 6-6020
Cable Address PHIBROCHEM NEW YORK

SALT CAKE

SODIUM SULPHATE ANHYDROUS • ALL GRADES

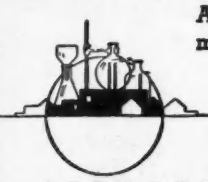
SODIUM CHLORATE

American Potash & Chemical Corporation

TRONA®

3000 WEST SIXTH STREET, LOS ANGELES 54, CALIFORNIA
99 PARK AVENUE, NEW YORK 16, NEW YORK

SPECIAL AMMONIUM COMPOUNDS SUCH AS:
AMMONIUM PHOSPHOMOLYBDATE, Purified
AMMONIUM HYPOPHOSPHITE, N.F. VII
Are among 71 ammonium compounds manufactured by —

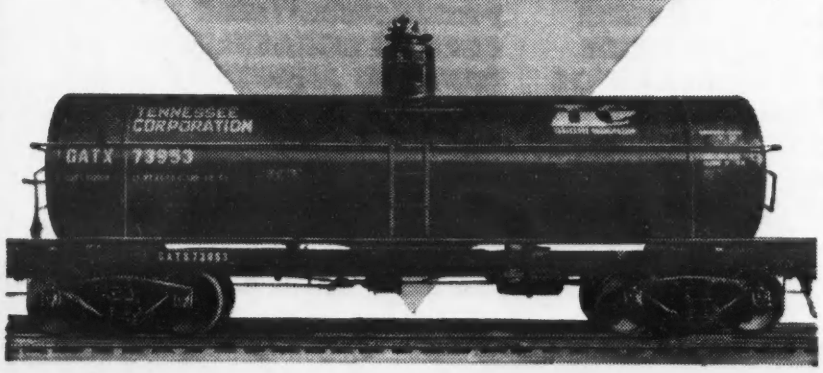


HEICO, INC.
MANUFACTURERS OF FINE CHEMICALS
STROUDSBURG • PENNSYLVANIA

Manufacturers of
Red and Black **COPPER OXIDE**
COPPER SCALE
ROBERT A. COUPE, 260 Rhode Island Ave., PAWTUCKET, R. I.
Telephone PAwtucket 3-4944

CLIP THIS AD TO LETTERHEAD FOR CATALOG OF SODIUM
PHOSPHATES and other Blockson Chemicals
BLOCKSON
BLOCKSON CHEMICAL COMPANY • Chemicals Division • Olin Mathieson Chemical Corporation • Joliet, Ill.

SULFURIC ACID



A BASIC PRODUCER FROM MINE TO FINISHED PRODUCT SERVING THE GREAT SOUTHEAST

The Sulfur contained in our ore yields Virgin Sulfuric Acid of highest quality — We produce all grades and strengths of Sulfuric Acid from 60° Baume through all the various Oleums.

Call JAckson 3-5024, Atlanta, Ga., or write:

TC TENNESSEE CORPORATION
512-529 Grant Building, Atlanta 3, Georgia

OPD Reports

Geneva Is a Tariff Bog

—Continued from page 7

the main country to benefit would be the US.

Across the English Channel in Britain, the Geneva reports of the London press make much over the demands of the Common Market for "variable import levies" on a wide range of agricultural products as the principal delaying factor.

The leaders of the American delegation last September singled out this Common Market policy as a particularly difficult one to harmonize with GATT.

The Discussion Is a 'First'

The Common Market external tariff is a subject of great difficulty to GATT because it is the first time such a topic has been discussed and because almost all the duties affected in the six Common Market nations have been "bound" under GATT at one time or another in the past.

Where these tariffs are to go up, as for Germany and Benelux, the consent of the GATT members must be obtained and some concession granted in return.

On all sides at Geneva, though, there are believed to be good reasons why there is no hurry to take up the Dillon negotiations and the Common Market has presented the member states with problems of tremendous dimensions. Fears about a return to protectionism in the US due to the balance of payments deficit and gold flow make Europeans want to see what the new administration is going to do before they make concrete "free trade" steps.

Continual chatter, of the most non-urgent type, about an agreement between the Common Market and the European Free Trade Association or Britain alone also contribute the go-slow attitude.

Sun Chemical Revamps Its Organizational Setup

Sun Chemical Corporation, New York, has rearranged its organizational setup.

The chemical coatings divisions has been shifted to the graphic arts group and Sun has named Weldon R. Coate to take over the general managership of this enlarged group.

The company's contracting and building materials divisions have been attached to the packaging materials group to take advantage of that group's strong sales orientation and the trade sales paint and retail distributors divisions has been transferred to the chemicals group.

At the same time, Sun has established a corporate office of purchasing under J. E. Spector, a vice-president of the firm.

Dow Chemical Opens Up Freeport Service Facility

Dow Chemical Company has opened a new technical service and development center for chemicals at Freeport, Tex. A. J. Pastor, previously a section head at Midland, Mich., headquarters, has been named supervisor of the unit.

Principal development work planned for the new location will be concerned with polyglycols and chlorinated solvents, Dow says. These are items which the company now has under volume production in Freeport.

Tar Distillation Unit

—Continued from page 3

Products, Inc., has started construction on a $6 million facility for supplying these gases, and expects to have in on stream by mid-1961.

The Air Products plant will supply some 350 tons a day of oxygen and 450 tons a day of nitrogen, both liquid and gaseous, to the Sparrow Point works.

Although technically this doesn't count as a steel capacity expansion, the company officials expect the oxygen-nitrogen unit to increase the Sparrow Point plant's steel-making potential by about 25 percent.

One spokesman for Bethlehem says there is no connection between the expanded and more efficient distillation unit and the increase in steel potential.

Tennessee Products

—Continued from page 4

"Benzoflex" plasticizers in the manufacture of vinyl products for both the industrial and consumer market, including floor coverings, film, adhesives and a variety of extruded and molded shapes.

The chemical composition of Tennessee's "Benzoflex 9-88" is derived from toluene and propylene oxide.

Keep the gremlins out of your magnesium compounds

Specify Merck for magnesium compounds and be sure that there are no gremlins—or any other deterrents—to interfere with prompt delivery or quality.

The Marine Magnesium Division serves the rubber, plastics, steel, paint, ink, drug, cosmetic and chemical industries with the following "gremlin-free" magnesium products:

MAGLITE® D, K, M, and Y
(Reactive Magnesium Oxides)
MARINCO® C
(Magnesium Carbonate, U.S.P. and Tech.)
MAGCARB™
(Special Grades of Magnesium Carbonate)
HYDRO-MAGMA®
(Magnesium Hydroxide in Water)
MARINCO® O
(Magnesium Oxide, U.S.P. and Tech.)
MAGCAL®
(Inactive Magnesium Oxide)
MARINCATE®
(Magnesium Trisilicate, U.S.P. and Tech.)
MARINCO® H
(Magnesium Hydroxide, N.F. and Tech.)

For additional information and samples write to Merck Marine Magnesium Division, Merck & Co., Inc., Rahway, N. J.

MERCK MARINE MAGNESIUM DIVISION

MERCK & CO., INC. • RAHWAY, N.J.

DISTRIBUTORS:
THE C. P. HALL CO. • G. S. ROBINS & CO., INC.
WHITTAKER, CLARK & DANIELS, INC.

Obituaries

Morton E. Kapp, vice-president of Superior Printing Ink Company, New York, died February 18 in that city. Mr. Kapp was a director and past president of the Association of Printing Ink Makers.

Herbert J. Weber, a chemical engineer and partner in Aard Plastics, Paterson, N.J., died February 18 in West New York, N.J. He was sixty-two years old. Mr. Weber was a past president of the New York section of the Society of Plastic Engineers.

George D. Cabot, retired supervising engineer of American Viscose Corporation, died February 21 in Warwick, R. I. He was fifty-nine years old.

Francis White, vice-chairman of the board of Baugh Companies, manufacturers of agricultural chemicals, died February 23 in Baltimore, Md.

Container Corporation Slates Corrugated Paperboard Unit

Container Corporation of America, Chicago, has announced plans to establish a plant in Houston, Tex., to manufacture corrugated paperboard packaging products.

The company presently operates a corrugated shipping container plant in Fort Worth and a folding carton plant in Arlington, a few miles east of Fort Worth.

Container Corporation has signed an agreement leasing a building which the Mabray-Nesmith Company has just completed. An addition will be made to the building, and the company plans to begin operations in the new location about May 1.

The plant, a one-story building, will be equipped with a printer slotter, die cutting, taping, gluing and stitching equipment and will produce a complete line of corrugated packaging products.

Look to BECCO first for
Peroxygen Chemicals
including
• Hydrogen Peroxide
• Peracetic Acid • Sodium Perborate
• Ammonium & Potassium Persulfates
• and other Peroxygen Chemicals
Write for list of free technical bulletins.
BECCO Chemical Division
Food Machinery and Chemical Corporation
161 East 42nd Street New York 17, New York

Caustic Potash, All Grades
Copper Sulphate
Glycerine C.P., U.S.P.
Chloroform, Tech. & U.S.P.
J.F.HENRY CHEMICAL CO., Inc.
4 Station Square, Rutherford, N. J.
N. J.: WEbster 9-7100 • N. Y.: BRyant 9-7283

SODIUM FERROCYANIDE
(Yellow Prussiate of Soda)
HENRY BOWER CHEMICAL MFG. CO.
30th AND GRAYS FERRY RD. PHILADELPHIA 46, PENNA.

Fairmount
CHEMICAL CO. INC.
136 Liberty St., N.Y. 6, N.Y. • Plant: Newark, N.J.
HYDRAZINE

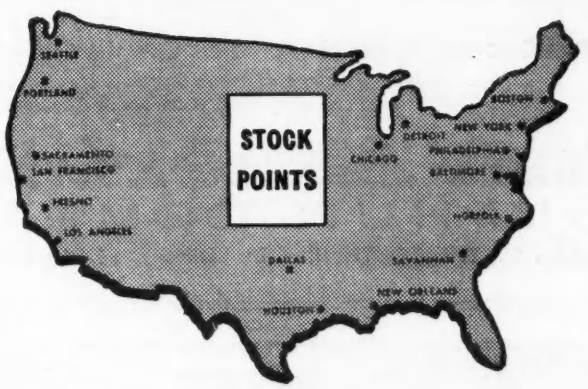
SODIUM SILICOFLUORIDE
OUR 94th YEAR
E. M. SERGEANT PULP AND CHEMICAL CO., INC.
7 DEY STREET NEW YORK 7, N. Y.

SMITH-DOUGLASS
NEW Granular
POTASSIUM SILICOFLUORIDE
FREE-FLOWING . . . DUST-FREE
Three production points (Norfolk, Va., Plant City, Fla. & Streator, Ill.) mean . . . better service . . . constant supply . . . continual, uninterrupted shipments . . . 12 months a year.
KSF is available in bags, drums, or bulk.
KAWECKI CHEMICAL CO.
220 East 42nd Street, New York 17, N. Y.
Telephone MUrray Hill 2-7143
Exclusive Sales Agents for **Smith-Douglass Co., Inc.**
5100 Va. Beach Blvd., Norfolk, Va.
SD SMITH-DOUGLASS CHEMICALS

"Mississippi Lime Company's Precipitated Calcium Carbonate meets our needs exactly"

Processed from limestone that uniformly tests 99% pure calcium carbonate. All grades and densities of Precipitated Calcium Carbonate U.S.P. and Technical. Immediate shipment.
See our specifications in Chemical Materials Catalog
MISSISSIPPI LIME COMPANY
ALTON, ILLINOIS

CMC



IMPERIAL CHEMICAL INDUSTRIES LIMITED
Ammonium Chloride, Grey and White • Ammonium Bicarbonate USP • Ammonium Carbonate • Bleaching Powder Tropical 34%-36% Cl_2 • Calcium Formate • Chlorinated Rubber • Copper Cyanide • Potassium Cyanide • Sodium Cyanide, all grades • Zinc Cyanide • Sodium Aluminate • Sodium Bicarbonate USP and Tech. • Sodium Carbonate Monohydrate • Sodium Perborate • Trichlorethylene, all grades • Urea, 46% Tech. • 3,5,5 Trimethyl Hexanol • 2:4 Dimethyl 6-Tertiary Butyl Phenol • Hexachloroethane

PETER SPENCE & SONS LIMITED
Aluminum Sulphate, Iron Free • Ammonia Alum • Butyl Titanate • Potassium Alum • Titanium Potassium Oxylate • Cobalt Molybdenum Catalysts

DEEPWATER CHEMICAL CO., LIMITED
Iodine, Resublimed USP and Reagent * Potassium Iodide, USP and Reagent * Potassium Iodate, USP and Reagent * Special Potassium Iodide Mixtures * Cuprous Iodide, Tech. * Sodium Iodide

LCI quantities available from Distributor Stocks in your area. This is only a partial listing of the items we offer. Write for complete product listings.

CHEMICAL MANUFACTURING CO., INC.
444 Madison Ave. • New York 22, N. Y.
714 West Olympic Blvd. Los Angeles 15, Calif.
114 Sansome Street San Francisco 4, Calif.

CALL FOR DUVAL

For the finest service and quality!

• MURIATE OF POTASH
• SULPHUR

Produced by

DUVAL SULPHUR & POTASH CO.

EXCLUSIVE SALES AGENT

ASHCRAFT-WILKINSON COMPANY

ATLANTA, GEORGIA

DDT

CUSTOM GRINDING

LEBANON CHEMICAL CO.

P. O. 532, LEBANON, PENNA.

PASCO PASCO PASCO PASCO PASCO PASCO PASCO PASCO PASCO PASCO

Producers & Marketers of Crude Sulphur

... with mining operations in Jaltipan, Veracruz, Mexico, and principal offices in Houston.

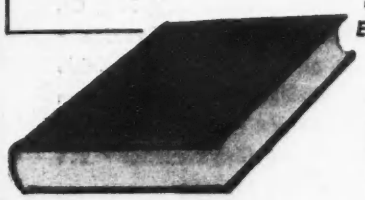
Pan American

SULPHUR COMPANY

609 BANK OF THE SOUTHWEST BUILDING HOUSTON, TEXAS

A BUSINESS guide for the chemical industries

Prepared by a staff of specialists under the direction of John H. Perry, Editor, CHEMICAL ENGINEERS' HANDBOOK



A Tool for Today

Increasingly engineers are being called upon to exercise more than technical skill—to add a voice in the management councils of industrial corporations. Now chemical engineers and chemists have a tool to help them in just this situation. This new book is packed with information to introduce you fully to sound business practices, related to your field, or to provide ready answers to specific management problems, large and small.

20 Big Sections

1. Business Finance
2. Management and Control by Cost Accounting and Planning
3. Commercial Chemical Development.
4. Research
5. Market Research
6. Market - research Data and Sources of Information
7. Industrial Purchasing
8. Production
9. Transportation and Traffic
10. Sales
11. Industrial Advertising
12. Credits and Collections
13. Personal Management
14. Public Relations
15. Business Law
16. Patents and Patent Law
17. Industrial Toxicology
18. Insurance and Loss Prevention
19. Reports and Report Writing
20. Business Mathematics

Now you can have expert guidance on all the fundamentals and operations of effective business management in terms of your field —everything made doubly useful by being aimed especially at chemical industry problems. In 20 big sections 124 specialists show you every essential aspect of market research, finance, purchasing, traffic, insurance, and a host of other business operations —a wealth of dependable facts to help you handle managerial problems and responsibilities better in this field.

CHEMICAL BUSINESS HANDBOOK

John H. Perry, Editor

formerly with the Development Department E. I. Du Pont de Nemours and Company

1330 pages, 7x10, 438 illustrations, $21.00

Whether you want to gain a broad knowledge of all chemical business practices or want an answer to specific business questions this book can help you. Here is a worthy companion to Perry's CHEMICAL ENGINEERS' HANDBOOK, with the same sort of thorough coverage and wealth of detail. Each major subject is written by specialists who give you a profusion of fundamentals, facts, and illustrations in concise, handy form—right from large-scale operations down to minor business functions. You're guided through all phases of finance, control by cost accounting, sales advertising, commercial development, patent law, industrial toxicology and a host of other subjects. In short, here is a complete encyclopedia on the business side of the chemical industries.

Send your order with remittance to:

SCHNELL PUBLISHING COMPANY, Inc.

30 Church Street New York 7, N. Y.

Agricultural Chemicals

The trend toward higher analysis fertilizers that has marked the domestic market over the past few years, is now a part of the world market as well, reports the Food and Agriculture Organization of the United Nations. In its annual review of world trade, production and consumption of fertilizers, the FAO reports that the striking feature has been the world trend toward higher analysis fertilizers.

Ammonium sulfate, which now accounts for 29 percent of the world total, is still produced in greater quantities than any other nitrogenous fertilizer, but is now strongly challenged by ammonium nitrate which is being used in steadily increasing quantities.

These two fertilizer materials now account for 54 percent of the world total. Output of nitrogen solutions (anhydrous ammonia, aqua ammonia, ammonium nitrate-water solution and combinations of ammonia, ammonium nitrate and urea dissolved in water) is increasing but their use is largely confined to the US, FOA reports.

The salient feature emerging from the broad review of the world fertilizer market is the spectacular growth of the industry. The evident excess of production capacity, FOA feels, has given rise to anxiety in some quarters but its main effect has been to promote use wherever possible.

In estimating future trends in the world market, FOA estimates that the greatest prospect for fertilizer use, particularly that of nitrogenous fertilizers is in Asia, and the Far East, where the pressure of population is high, and available ariable land proportionally low.

New nitrogen factories in the process of completion or planning are reported in several European countries. In the United Kingdom, two new fertilizer plants have been opened at Misteron and at Stanfordle-Hope for production of granulated mixed fertilizers (30,000 annual tons) and of ammonium nitrate, respectively.

In Hungary, Borsod's fertilizer plant is nearly ready to start turning out its 133,000 annual tons of nitrogenous fertilizer, while in Spain, it's reported that two fertilizer plants are planned at Seville and Lerida. The plant at Lerida will produce 50,000 tons of fertilizer, with provision for increase to 80,000 annual tons. In the Netherlands, a new sulfuric acid plant will be built near Rotterdam, adjacent to the Parnis plant for ammonium sulfate. This plant will use pyrites from Cyprus. And in West Germany, a new urea plant is being built near Cologne with a planned capacity of 25,000 annual tons.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Feb. 26, 1960
111.00	111.00	110.71	110.95

For Current Prices see page 11

Animal and Plant Foods

A uniform policy for the labeling of plant foods has been adopted by state control officials, agronomists and members of the fertilizer industry in the North Central Region, reports the National Plant Food Institute.

The policy adopted is entitled "A Uniform Policy for the Labeling of Plant Foods in the North Central Region."

It is intended that the plan be ratified by each of the states and that appropriate regulations will be implemented to bring the plan into effect in all States on July 1, 1961, or as soon as possible thereafter. The policy includes the following points:

• The state officials will require guarantees at minimum levels, in percentages, of all available nutrient elements for which claims of beneficial effects to plants are made in any manner or form. The 15 elements and the minimum amount of each which may be guaranteed in the labeling of any plant food product are as follows:

	Percent	PPM[1]
Primary		
N	1.200	10.000
P	0.40	4.000
K	0.8	8.000
Secondary		
Ca	1.00	10.000
Mg	0.50	5.000
S	0.50	5.000
Trace		
B	0.10	100
Cu	0.10	100
Zn	0.10	100
Mn	0.50	500
Fe	0.10	1.000
Mo	0.001	10
Co	0.001	10
Cl	0.10	1.000
Na	0.10	1.000

[1] Parts per million.

• An element is considered "available" if the form in which it is added to the product has been shown to give plant response or if the element can be dissolved from the product in water or in some other solvent which is recognized to indicate availability to plants.

• Each of the fifteen elements when claimed is to be guaranteed in the form of the element, except phosphorous and potassium which are to be guaranteed as the element or as the oxide or both.

• A statement of the equivalent guarantees for phosphorous and potassium as the elements is to be encouraged but not required.

• Warning statements are to be required on the label for plant food products which contain more than 0.025 percent boron in a water-soluble form.

• The use of such all-inclusive terms as "balanced" and "complete" in the labeling of plant food products is not to be permitted unless the label shows the intended meaning of these terms.

Ammonia—The Census Bureau reports that the output of synthetic anhydrous ammonia in December was placed at 424,092 short tons, compared to 408,625 short tons in the previous month. Stocks of synthetic ammonia were also increased during the month as supplies on hand at producers plants totaled 266,550 short tons, up from the 200,025 short tons on hand at the beginning of the month.

Ammonium Nitrate—Original solution ammonium nitrate production during December was reported by the Census Bureau at 276,286 short tons for fertilizer grade. For the previous month, output was maintained at 259,948 short tons. Stocks on hand at producers' plants were estimated at 229,236 at the end of December, compared to 214,534 short tons on hand at the beginning of the month.

Ammonium Sulfate—Reflecting the snugness in the supplies of ammonium sulfate over the past few months, the Census Bureau placed the output of synthetic ammonium sulfate at the end of December at 63,733 short tons, down from the 74,905 short tons reported for November. Stocks of synthetic were estimated at 107,948 short tons at the end of December.

Byproduct output of ammonium sulfate was reported at 37,415 shorts at the end of November with no figures available for December. However, production for December 1959, was placed at 68,422 short tons. Stocks at the end of November were reported at 134,717 short tons of byproduct ammonium sulfate.

Pesticides

US production of pesticides and other organic agricultural chemicals in 1960 amounted to 637 million pounds, or 9 percent more than the 558 million pounds reported in 1959. Sales in 1960 were made at 558 million pounds, valued at $235 million, compared to 503 million pounds at $225 million in 1959, reports the Tariff Commission.

The output of cyclic pesticides and other chemicals included in the cyclic group amounted to 517 million pounds in 1960 or about 10 percent more than the 496 million pounds produced in 1959. Sales in 1960 were made totaling 446 million pounds, valued at $196 million, compared with 410 million pounds, valued at $172 million in 1959.

Of all cyclic pesticides, the one standout was DDT. This chemical was produced in the greatest quantity last year, as in each year since it was first reported separately in 1944. DDT output was placed at 164 million pounds in 1960, a record high.

Aliphatic Organics

Calcium and sodium propionates, used as mold inhibitors, will be advanced 2½ cents, to 37 cents a pound delivered, on March 1. The change was initiated by a major producer a week ago and in the interval a competitor has reported it will meet this schedule. In other recent price developments, dextrine was boosted 20 cents per hundredweight, while a-D-methyl glucoside was boosted 3 to 3½ cents, to 24 cents a pound in carload lots (minimum 40,000 pounds), 25 cents a pound in truckloads and 26 cents a pound in less than truckload quantities.

On the down side: itaconic acid and corn syrup. A major manufacturer of corn products has notified customers that a special allowance of 35 cents per hundredweight will be granted when remitting for all grades of "Corn Syrup Unmixed" on all shipments made on and after February 13. Usually well-informed sources call this a temporary measure which is likely to be rescinded in about three months.

The 10 cent a pound reduction in refined itaconic acid, to 39½ cents in carload quantities, went by almost without notice. First word of the change, which was effective in late January, came with the announcement that the responsible firm had just acquired a one-third interest in an Italian company that was organized in 1956 to research and develop potential applications for the chemical.

Acetylene—A major chemicals producer disclosed plans late last week for a multimillion dollar acetylene facility. This amounts to back-integrating for the company is now purchasing all of its requirements from outside sources.

Construction of the new facility, which will utilize an improved hydrocarbon process reportedly, is expected to begin late this year. Completion is scheduled for the early part of 1963.

Butyl Alcohol — December exports of butyl alcohol totaled 6,599,877 pounds, valued at $791,373. Major purchasers were: Belgium 2,836,960 pounds at $325,539; The Netherlands 1,739,452 pounds at $184,295; and Poland, 1,433,003 pounds at $186,290. Off the roster: USSR. In the two previous months, the Soviets bought 3,332,291 pounds.

Exports of butyl acetate in December amounted to 2,666,045, pounds, valued at $355,120. The big buyers were: Belgium 1,244,181 pounds at $156,072; and The Netherlands 685,383 pounds at $76,168.

Chloroacetic Acid — Imports, rising at the alarming rate of 52 percent a year, are a source of constant concern to the domestic trade whose production record has followed no steady uptrend. In fact, from 46.8 million pounds in 1955, output dropped to 38.4 million in 1958, rising, however, to 42.7 million pounds in 1959 and to an estimated 48.7 million pounds in 1960.

In December of last year, imports continued to climb, hitting 1,147,487 pounds. This compared with 1,131,716 pounds in November and 919,956 pounds in October.

Shippers' roster, as reported by the Commerce department, revealed this lineup for December: France, 757,360 pounds, valued at $124,299 and dutied at $9,467; West Germany, 205,127 pounds, valued at $33,500 and dutied at $2,564; The Netherlands, 184,500 pounds, valued at $28,704 and dutied at $2,306; and Canada, 500 pounds, valued at $112 and dutied at $6.

Ethanolamines — Liquid detergents continue to make substantial sales gains, obviously to the delight of producers of diethanolamine and other chemical raw materials (ethyl alcohol, among them) used in the manufacture of this new breed of cleaning agents.

[illegible] the Association of American Soap and Glycerine producers, sales of the liquid syndets amounted to 645,264,000 pounds and $220,206,000, up 14 percent in volume and 8.5 percent in value from 1959.

Smaller gains percentagewise were recorded for solid syndets which rose 1.1 percent in volume, to 2,665,386,000 pounds, and 1.6 percent in value, to $580,467,000.

All-told, syndet sales were 3,310,650,000 pounds and $800,673,000, up 3.3 percent and 3.4 percent, respectively. These figures represented 75.8 percent of combined soap and syndet sales volume, and 71.5 percent of total value.

Methyl Glucoside — A producer has posted higher prices for a-D-methyl glucoside. Under the new schedule, the carload (40,000 pounds minimum) listing is 24c. a pound; the truckload (23,000 pounds minimum), 25c. a pound; and the less truckload, 26c. a pound. Material is shipped in 100-pound bags, regardless of quantity, f.o.b.

The new prices represent increases ranging from 3c. to 3½c. a pound.

Succinic Anhydride—Responding to the growth in demand for succinic anhydride, the sole US producer of the chemical has doubled its capacity with the addition of a new facility.

A price reduction last July (from 75 cents to 51 cents a pound in truckloads and carloads) spurred requirements, spokesman for the firm says, adding that until now, the product has been on allocation.

Hoping to accomplish the same for dodecenyl succinic anhydride, the firm cut prices for this chemical to 50c. a pound in carloads and 52c. a pound in less than carloads—from 75c. and 76c. a pound, respectively—last fortnight.

Succinic anhydride is used in resins, plasticizers, coatings, elastomers, and adhesives. It is also finding use as an intermediate in pigments, lube-oil additives, cosmetics, pharmaceuticals, perfumes, corrosion preventatives, and insect repellents.

Vinyl Acetate—Sources report the market for vinyl acetate monomer is keenly competitive, some people suggesting that imports have something to do with this. Others disagree, however, maintaining that the monomer does not as a rule see the open market. As a polymer or in end-products, it does of course, and it is assumed that this is the reason why imports are not everywhere appreciated.

Major market—and one that is currently strong—for the monomer is the manufacture of polyvinyl acetate resins, versatile materials that are used in a variety of applications including textiles, leather and paper.

December imports of the monomer totaled 2,942,290 pounds, and were valued at $473,632 and dutied at $66,371. Shipping here were Canada (2,929,140 pounds, valued at $467,097 and dutied at $65,799) and Japan.

The same month, polymer imports were 97,250 pounds, valued at $53,649.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Feb. 26, 1960
130.49	*130.49	131.51	132.54

* Revised.

For Current Prices See Page 11

Aliphatics Foreign Trade: December

Exports of selected industrial aliphatic organics for the months of November and December, 1960, as reported by the Bureau of Census, were as follows:

		December	November
Acetone	lbs.	1,138,575	795,020
Alcohols, including, glycols, n.e.c.	lbs.	12,047,768	13,694,253
Butyl acetate	lbs.	2,666,045	1,873,496
Butyl alcohol	lbs.	6,599,877	8,387,252
Carbon bisulfide	lbs.	191,200	242,706
Carbon tetrachloride	lbs.	760,200	586,916
Ethyl alcohol	gals.	1,720	316,161
Ethylene glycol	s.	4,892,561	4,730,134
Formaldehyde, 40 percent solution	lbs.	809,800	245,863
Glycerine, crude and refined	lbs.	3,074,890	881,924
Methyl alcohol	gal.	5,136,251	2,339,092
Propyl alcohol	lbs.	540,764	373,237

Only Procter & Gamble supplies GLYCERINE from 9 plants across America!

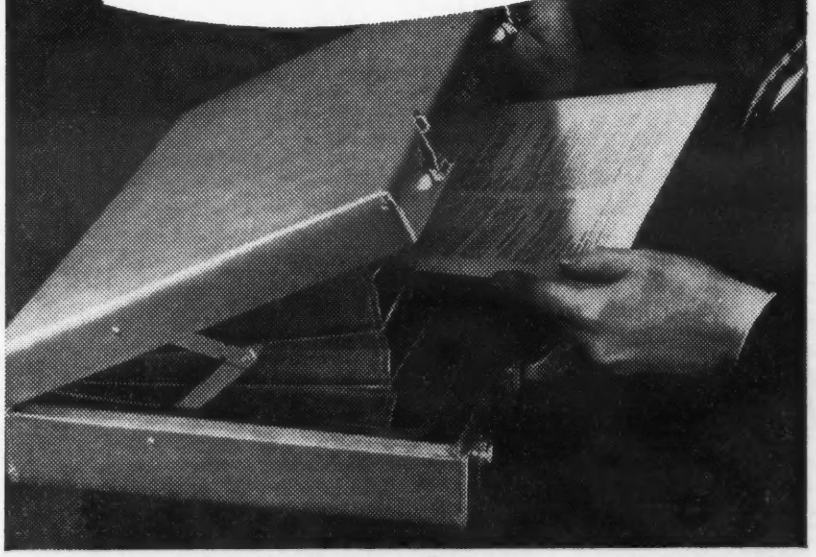
Producing a steadily increasing supply of natural GLYCERINE to fill your needs.

FOR INFORMATION WRITE:
Procter & Gamble, Cincinnati 1, Ohio
or 640 Fifth Avenue, N. Y. 19, N. Y.

LEVER BROTHERS COMPANY
Producers and Refiners of
NATURAL GLYCERINE
390 Park Avenue New York 22, N. Y.

RANEY CATALYST CO., INC.
Originators and Dependable Suppliers of
RANEY CATALYSTS
Raney NICKEL
1322 Hamilton National Bank Bldg.
Chattanooga 2, Tenn.
Since 1925 Phone: Amherst 6-8614, Taylor 1-7823 Cable Address: RANI

Did you say—
METHANOL?
When you buy this basic material from RCI, you are assured a high standard of clarity and purity. RCI can also assure prompt and dependable delivery from a nationwide network of shipping points. Why not check with RCI today for complete details?



Creative Chemistry...Your Partner in Progress
RCI **REICHHOLD**
REICHHOLD CHEMICALS, INC., RCI BUILDING, WHITE PLAINS, N. Y.

ORGANIC PEROXIDES

LUPERSOL® DDM
METHYL ETHYL KETONE PEROXIDE
in Dimethyl Phthalate
FORM—Liquid PEROXIDE ASSAY—60%
USE—Catalyst for room temperature curing of polyester resins.

LUCIDOL DIVISION
WALLACE & TIERNAN INC.
1740 MILITARY ROAD, BUFFALO 5, NEW YORK

CHLORINATED SOLVENTS

Perchlorethylene • Methylene Chloride
Trichlorethylene • Carbon Tetrachloride
IMPORTED FROM WESTERN EUROPE • BULK STOCKS AT ELIZABETH, N. J.
INTERNATIONAL PETROSOLVENTS, INC.
390 Park Avenue, New York 22, N.Y.
Tel: PLaza 2-2260

CCl2=CCl2 = CARBON TETRACHLORIDE
CH2Cl2 = METHYLENE CHLORIDE
CHCl=CCl2 = TRICHLORETHYLENE
TANNIC ACID

Fastest Shipment from Europe
ATTRACTIVELY PRICED
Why Not Write
ROTEXCHEMIE-BRUNST & Co.
Hamburg 13, Klosterstern 8-Germany
Cable Address: ROTEXCHEMIE

OPD
Quickest way to keep current
on
Chemical Costs

Key Chemicals
from Wyandotte...

Ethylene Oxide
Propylene Oxide

Wyandotte Chemicals Corporation, Michigan Alkali Division
Wyandotte, Michigan • Offices in principal cities

WYANDOTTE CHEMICALS

Copper Compound Clearance Broadened Under Miller Law

Food & Drug Administration has tentatively agreed to broaden the list of copper compounds exempt from the tolerance requirements of the Miller pesticide law to include copper sulfate pentahydrate.

Interested persons desiring to comment on the exemption have been asked to submit their statements to the FDA hearing clerk by March 11.

As broadened, the list of exempt copper compounds would include the following: Bordeaux mixture, copper acetate, basic copper carbonate (malachite), copper-lime mixtures, copper oleate, copper oxychloride, copper silicate, copper sulfate basic, copper sulfate monohydrate, copper sulfate pentahydrate, copper-zinc chromate, cuprous oxide, and tetra copper calcium oxychloride.

Polymer Offered in Quantity

Thompson Chemical Company, Pawtucket, R. I., is offering commercial amounts of "Trulon 630." This new polyvinyl chloride homopolymer is a unique low molecular weight resin offering a new high in level of plasticizer absorption capacity. It also shows particularly good heat stability coupled with processing ease, says Thompson.

Kennedy's Merger-Men

—Continued from page 4

tion of the Clayton act and to require Koppers to divest itself of all stock interest in Thomas.

Harry B. Cummings, vice-president and general manager of Koppers' metal products division, says the Thomas Flexible Coupling is not competitive with Koppers' Fasts' couplings, because of significant difference in design, size and application.

Mr. Cummings feels that Koppers made a thorough analysis of the sales of Thomas and Fast's couplings to determine the amount of competition between the two products, and concluded the acquisition did not constitute an antitrust violation.

Bids Wanted

Antimony, 4,000 kilograms, purity 99.7 percent, bids invited until March 28 by the Imperial Iranian Army Arsenal (dareh Taslihate Artesh), Avenue Jaleh, Tehran, Iran. Bidding instructions, specifications and other pertinent data are available on loan from the Trade Development Division, Bureau of Foreign Commerce, US Department of Commerce, Washington 25, D.C.

Creosote, 1,000 metric tons, bids invited until March 23 by Controller of Stores, Sudan Railways, Khartoum, Sudan. A preliminary deposit of 2 percent of the bid is required.

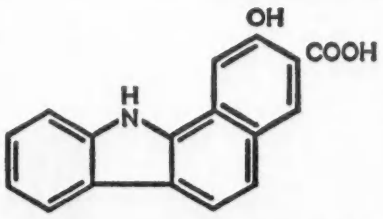
Paint Materials, Enamel, Lacquer and Paint, interior and exterior, white and colors, various specs., indefinite quantity for the period March 22, through March 21, 1962. Bid IFB 10040, March 14. General Services Administration, Region 8, Business Service Center, Bldg. 41, Denver Federal Center, Denver, Colo. **Lacquer**, Spec. MIL-L-19537A, (WEP) 6,300 gals., Bid IFB 63077-2603-61B, March 7. Availability of specs. drawings and spec. exceptions are available from the Naval Supply Depot, Attn: Code CDI, Building 26, 5801 Tabor Rd., Philadelphia 11, Pa. Drawings and spec. exceptions are available from the bidding agency. Military Industrial Supply Agency, 700 Robbins Ave., Philadelphia 11, Pa.

TENNANT
HYDRIODIC ACID
▶ Technical Grade
▶ ACS Reagent Grade
TENNANT CHEMICAL DIVISION
TENNANT DEVELOPMENT CORPORATION
100 Park Ave., New York 17, N. Y.
TELEPHONE: OR 9-1300

BENZENE BENZOL
AROMATICS SOLVENTS
FRENCH PLANT
With Large Stockage Facilities and Distribution
Interested in Agency or Association
Write: SONOCOM 36 Rue De Chateaudun Paris IX

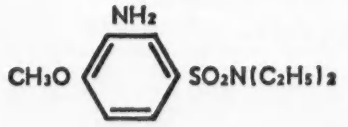
NEW PFISTER Intermediates
offered by Pfister Chemical Works
in commercial quantities . . .

2-Hydroxy-1', 2'-Benzocarbazole-3-Carboxylic Acid



(A light green powder of 85% minimum purity, soluble in ethyl alcohol and acetone — insoluble in water.)

N'-Diethyl-3-Amino-4-Methoxy-Benzene-Sulfonamide



(White to pink crystals of 98.5% minimum purity, insoluble in water and ether — partially soluble in alcohol.)

For further information, samples and catalog listing numerous intermediates write or phone us.

Pfister Chemical Works
RIDGEFIELD, N. J.

Coal Chemicals

Petroleum naphthalene went commercial last week as five tankcars with capacity totaling approximately a half million pounds of the scarce material were loaded near Ashland, Ky., for delivery to eager customers. Capable of turning out an estimated seventy-five to one hundred million pounds of naphthalene annually, the plant employs the "Hydeal" process and is also able to produce six million gallons of benzene. On stream in seven months from ground-breaking time, the plant is expected to substantially ease the longstanding short supply situation of naphthalene.

Other news revealed last week relating to naphthalene revolved around plans of a major steel company to build a mammoth tar distillation plant at Sparrows Point, Md. Slated to complement existing facilities, the new unit will be capable of processing fifty million gallons of tar annually. Yields will include forty-two million pounds of naphthalene and tar acids.

Production of steel for the week ended February 18 was 1,582,000 tons, an increase of 3.8 percent from the preceding week.

Based on assumed 1961 steel capacity, production for the week ended February 18 was 54.9 percent of capacity.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Feb. 26, 1960
117.52	117.52	117.45	118.40

For Current Prices See Page 11

Basic Products

Benzene—Short supply situation of this basic chemical remains generally unchanged.

Demand persists in outstripping available supply although the lack of material is not now as critical as it has been in past months.

Added petroleum supply was announced within the last fortnight as a refiner revealed plans for a 12 million gallon "Udex" plant to be built in Kentucky.

Benzene capacity slated to be on stream by the end of next year figures to be 1,055,000,000 gallons ensuring more than adequate supply for forseeable needs.

Benzene imports in December rose to 8,970,236 gallons valued at $2,155,286 after negligible November arrivals of 4,930 gallons.

Major shipments were received from—

USSR—8,502,277 gallons valued at $2,090,942 arriving at New Orleans, Galveston and Detroit districts.

Canada—467,959 gallons valued at $63,-34 arriving at Galveston.

Preliminary total imports for 1960 tally at 38,676,492 gallons, well below the 56.8 million gallons received in 1959.

Exports climbed in December with 2,605,599 gallons outward bound as against 888,651 gallons in November.

Value of December shipments was $1,-03 .497.

Destination, volume, value and Tariff Commission exit port designation of major shipments follows:

Italy—1,228,037 gallons worth $402,492 leaving from Port Arthur and Galveston districts.

Netherlands — 599,959 gallons, worth $2?7,886 leaving from Galveston.

Canada—574,406 gallons worth $285,711 leaving from St. Lawrence, Rochester and Galveston districts.

Further on down the list a shipment to

Naphthalene—Trade sources are growing confident that the long-standing shortage of material will soon show signs of easing.

Steel rate has been edging upward and last week reached the highest production in eight months.

Imported naphthalene is also arriving in greater quantity relieving in part the supply worries of some consumers.

Petro-naphthalene still looms as the most effective answer to supply shortages. Bulk of expected 325 million pound petroleum capacity is expected by the end of the year.

Naphthalene imports in December amounted to 3,474,871 pounds valued at $390,931.

Major shipments were received from—

United Kingdom—1,301,276 pounds valued at $75,715 arriving in New York and Philadelphia.

Belgium—1,288,577 pounds valued at $182,030, majority arriving in New York.

West Germany—223,833 pounds worth $32,202 arriving in New York.

Phenol—Activity is reported back to good volume after a slump in sales in January when inventory building effects were felt.

Phenol exports declined to 2,119,050 pounds valued at $343,718 in December. November exports were 5.2 million pounds.

Major shipments were made to—

Argentina—867,269 pounds worth $135,-428 leaving from New York and Philadelphia.

Canada—383,488 pounds worth $60,348 leaving from Seattle and Detroit districts.

Japan—186,593 pounds worth $43,246 leaving from Philadelphia.

Intermediates

Phthalic Anhydride—Demand continues well sustained. Only problem is availability of naphthalene raw material.

Plasticizer end of the market remains strong with demand increasing steadily.

Phthalic anhydride exports in December totaled 444,960 pounds worth $88,863.

Major shipments were made to—

United Kingdom—120,720 pounds worth $21,789 leaving from New York.

Canada—112,000 pounds worth $21,211 leaving from Buffalo and Detroit districts.

Netherlands—77,280 pounds worth $16,-336 leaving from New York and Philadelphia.

Brazil—56,160 pounds worth $13,116 leaving from New York.

Mexico—53,040 pounds worth $10,213 leaving from Philadelphia, New Orleans and Laredo districts.

Styrene Monomer—One industry leader recently predicted a five percent growth rate for styrene.

Estimating current capacity at 1,077 million pounds this would mean a gain of approximately 85 million pounds this year.

Current figures show styrene demand dipping, however, from 150 million pounds output last August down to 131 million pounds for December, the latest month for which statistics are available.

Styrene monomer exports hit 9,418,865 pounds valued at $1,227,631 in December.

Major shipments were made to—

Italy—4,416,815 pounds valued at $503,-250, most material leaving from Galveston.

Netherlands—3,971,084 pounds worth $476,530 leaving from Galveston.

Argentina—396,340 pounds worth $59,-715 leaving from New Orleans and Galveston.

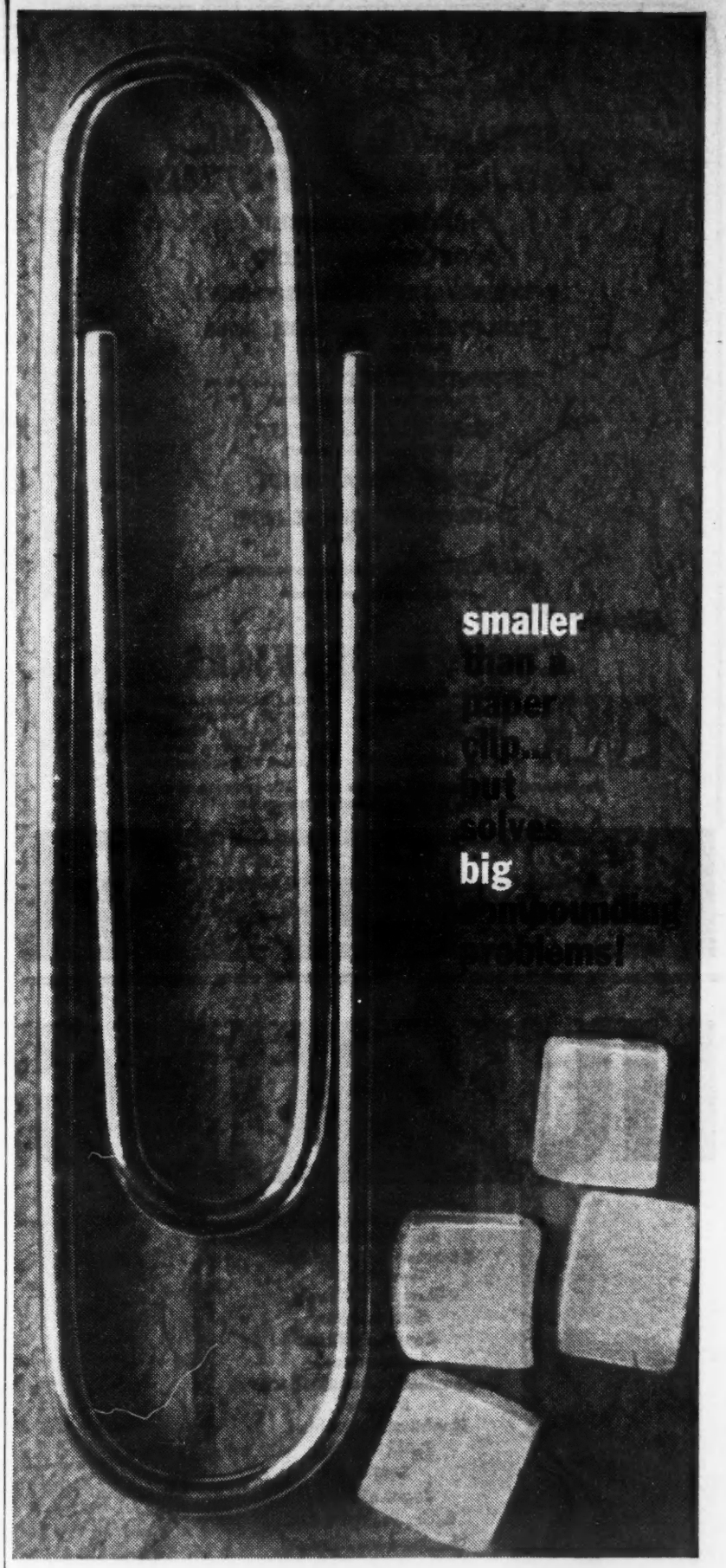
United Kingdom—224,000 pounds worth $27,680 leaving from New York.

Aromatic Chemicals Foreign Trade: December

Following statistics are compiled from Census Bureau reports.

	December 1960	December 1959	Total* 1960	Total 1959
EXPORTS				
Benzene ....gals.	2,605,599	624,053	23,570,105	7,305,337
Coaltar, crude and refined....gals.	20,575	31,296	315,215	344,983
Creosote or dead oil....gals.	24,060	1,100	164,255	265,016
Cresols and cresylic acids....lbs.	1,460,373	573,134	16,902,036	6,951,494
Phenol ....lbs.	21,119,650	3,650,160	47,405,731	39,663,612
Phthalic anhydride ....lbs.	444,960	25,250	16,415,197	4,108,380
Toluene ....gals.	5,664,012	6,439,571	51,434,034	31,435,140
IMPORTS				
Benzene ....gals.	8,970,236	4,650,147	38,676,492	56,849,941
Creosote and dead oil....gals.	5,493,462	4,881,734	35,521,646	37,449,061
Cresols and cresylic acid, ADF....gals.	56,096	142,622	1,410,878	2,050,122
Naphthalene, melting point less than 79° C.lbs.	3,474,871	4,059,587	40,412,364	59,033,099

* Preliminary.



A-C† POLYETHYLENE

Just a little bit of "A-C" Polyethylene Lubricant added to troublesome raw compounded stocks causes an unbelievable improvment. Works added economies, too, such as: shorter mixing cycles; less power consumed; faster calendering and extruding rates; cleaner molds; lower percentage of rejects. "A-C" Polyethylene Lubricants are available in a wide range of grades for specific uses. Write for technical advice on applying them to solve your particular problem.

PLASTICS DIVISION
40 RECTOR STREET, NEW YORK 6, N. Y.

Allied Chemical
BASIC TO AMERICA'S PROGRESS

ARAPAHOE
TRADE-MARK

Check us for data, prices, etc. on

UNUSUAL, USEFUL, AVAILABLE COMPOUNDS

INDOLEACETIC ACID

INDOLEBUTYRIC ACID

2-CARBETHOXYCYCLOPENTANONE

CYCLOPENTYLPROPIONIC ACID
(And the Acid Chloride)

1,2-DIMETHOXYETHANE, Anhydrous
(Ethylene Glyco' Dimethy' Ether)

LEAD TETRA-ACETATE
(80-90% active ingredient)

NEOPENTYL ALCOHOL

N-IODOSUCCINIMIDE (NIS)
(56.0% Min. Act. I_2)

OXAMIDE (Highest melting organic compound)

Also Available

CUSTOM SERVICES

EVER

- want to hire a plant?
- need pilot to commercial production while exploring sales potential?
- worry about control?

We specialize in producing organic compounds, intermediates (used in making hormones, vitamins, etc.) and semi-finished drugs, insecticides and pesticides on a volume basis.

Don't spend for plant until you are sure. It's better to hire us as many of our satisfied customers do.

ARAPAHOE CHEMICALS, INC.
2855 WALNUT • BOULDER, COLORADO
PRODUCERS OF FINE ORGANIC CHEMICALS

HUISKING

Camphor U.S.P. Powder
Camphor Technical
Camphor U.S.P. Tablets
Tower Brand®
Chlorophyll Allen's
Cocoa Butter
Copper Sulfate
Ichthammol
Magnesium Carbonate Blocks
Menthol
Naphthalene Refined
Rosin Powder
Santonin
Sugar of Milk
Sulfur Precip. U.S.P.
Theobromine Alkaloid

Cinchonidine
Cinchonine
Quinidine
Quinine
and their Salts

Produced by Buchler & Company

CHAS. L. HUISKING & CO., INC.
417 Fifth Ave., New York 16, N. Y., Phone: ORegon 9-8400. Cables: Huisking, N. Y.

MANUFACTURING DIVISIONS:

Since 1910
Plants and Warehouses at Lyndhurst, N. J. and Williamsport, Pa.

® GLYCO CHEMICALS
® PEDER DEVOLD OIL CO.
CLINTBROOK CHEMICAL CO.

Drugs, Fine Chemicals

With hardly a trace of the season's heavy snowfall remaining in the metropolitan New York area, where a large segment of the drug and fine chemicals industry is concentrated, truck shipments are once again back on schedule and a backlog of commitments successfully moved out to customers' plants, trade sources reported last week. They also noted that quite a few orders are still in the "rush" category and for the obvious reason: Acutely aware of the depressed state of the nation's economy, buyers are sticking to their tight-inventory policy.

Pricewise, relative stability exists in most areas of the market. But as might be expected, the usually unsettled spots remain so. Penicillin, for example, is in a highly competitive position, due principally to the struggle for veterinary business, and at least two of the vitamins are conspicuously weak. A drop in import volume of both thiamine and pyridoxine, is thought to have stalled what had been a persistent downtrend, however.

Despite approaching government sales of quinine and quinidine, prices for both materials are firm; in fact, some sources suspect quinidine will go higher shortly. Strength also characterizes markets for other alkaloids, notably yohimbine hydrochloride, atropine sulfate, eserine salicylate, and the hyoscyamine salts. Brucine and quassin have been little effected, reportedly, by the introduction of a synthetic denaturant called "Bitrex."

Ascorbic Acid—While medical proof is believed still inconclusive, ascorbic acid is gaining in renown as a cold-fighter. A manufacturer of a new prescription remedy for colds, influenza and sinusitis states in introductory literature:

"Since lack of vitamin C may be an important contributing factor in lowered resistance to infections and since deficiency of vitamin C is one of the most commonly encountered vitamin deficiencies, a generous amount of vitamin C is included in the 'Win-Codin' formula."

Imports of ascorbic acid, at 26,016 pounds in November, rose to 30,953 pounds in December. Valued at $18,922 and dutied at $10,424, this material came from Denmark (16,755 pounds, valued at $44,331 and dutied at $4,654) and Japan (the remainder).

Cortisone—December exports of cortisone, including ACTH and derivatives, were valued at $187,560, substantially below November's figure of $207,457. Big shipments, according to Commerce department reports, went to: Bermuda, $57,978; The Netherlands, $30,400; West Germany, $10,350; and Canada, $12,500.

Slightly higher than November ($234,797), December exports of hydrocortisone were worth $264,534, Commerce says. Based on dollar value, the major buyers were: Panama, $83,235; France, $51,000; West Germany, $35,000; and Japan, $23,124.

Iodine—The Japanese appear to be strengthening their position in the US crude iodine market. They shipped 95,998 pounds (valued at $92,344) here in December, notably above the record 92,021-pound shipment in September.

Indicated by these figures, according to interested observers, is a new, non-consuming end-use. More than that, they won't say, and a routine check of trade sources fails to cast any more light on the subject.

The only other outside supplier of crude iodine to the US market, Chile shipped 103,098 pounds (valued at $87,183, according to Commerce department calculations) here in December.

Prices appear reasonably firm. Late last summer, a domestic producer boosted the price of crude iodine to $1.10 a pound (from 95c.) and a bit later, the supplier of Chilean iodine announced a similar advance. Jap iodine was increased at about the same time, but it's believed that it is still selling a few cents cheaper, as one would logically expect.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Feb. 26, 1960
59.27	59.27	59.27	60.22

For Current Prices See Page 11

Prednisolone—December exports of prednisolone were valued at $920,628, up from $778,789 in November and $907,518 in October.

Large shipments went to: Panama, $151,829; West Germany, $63,660; Argentina, $58,160; and Sweden, $51,712.

Exports of prednisone in December were valued at $58,770, according to Commerce department statistics. This compared with shipments worth $91,903 in November and $113,757 in October.

The end-of-the-year buyers were: Panama, $33,925; Switzerland, $7,000; Indonesia, $6,940; and Canada, $4,650.

Sulfa Drugs—Demand for sulfa drugs, which picked up after the first of the year, continues good, according to trade reports last week. Adequate material is available of course. In addition to domestic production there is foreign goods, a fact that exerts continual pressure on domestic pricing.

Exports of sulfa drugs in December were 66,395 pounds, valued at $557,502. The totals represent shipments of sulfathiazole (15,666 pounds at $91,157), sulfadiazine (939 pounds at $11,333), and sulfonamide drugs not specifically classified (49,790 pounds at $455,012).

Thiamine—A further drop-off in imports was noted in December. Volume was 2,419 pounds (valued at $18,922 and dutied at $1,987), compared with 2,666 pounds in November and 8,420 pounds in October. In the same period, prices paid domestically for the vitamin leveled off, according to several sources.

No B_6 was imported in December, Commerce department statistics show.

Vitamin B_{12}—Superior treatment of B_{12} deficiency is seen with a new, longer-acting form of the vitamin. Called hydroxocobalamin, the preparation is currently undergoing clincial evaluation. Researchers determined earlier that an aqueous solution of hydroxocobalamin possesses all the features sought for in a longer-acting vitamin B_{12}.

To date, the main difficulty in the treatment of B_{12} deficiencies has been that small doses of cyanocobalamin are inadequate to replenish the body's depleted stores while most of the large parenteral doses are eliminated in the urine within the first 12 hours.

Absorbed more slowly and retained in the body longer than existing forms, hydroxocobalamin may become the most

—Continued on page 40

Drugs and Fine Chemical Exports: December

Exports of selected drugs and fine chemicals for the months of November and December, 1960, as reported by the Bureau of Census, were as follows:

		December	November
Analgesics and antipyretics	lbs.	90,009	67,154
Antibiotics, bulk & dosage, forms, n.e.c.	grs.	22,370,694	11,781,326
Ascorbic acid	lbs.	63,422	98,054
Aspirin	lbs.	58,664	40,153
B-complex (excluding B_1 and B_{12})	lbs.	44,960	45,676
Bacitracin	100-million-units	11,134	4,545
Dihydrostreptomycin, bulk	gms.	5,534,245	3,837,434
Pectin and preparations	lbs.	72,609	32,292
Penicillin, bulk	billion units	8,462,945	8,947,870
Streptomycin, all forms	gms	4,735,268	4,818,000
Sulfa Drugs	lbs.	66,395	76,130
Thiamin	lbs.	2,885	4,885
Vitamin A bulk, medicinal	lbs.	9,125	15,450
Vitamins, n.e.c.*	lbs.	103,880	52,539

* Not elsewhere classified by the Census bureau.

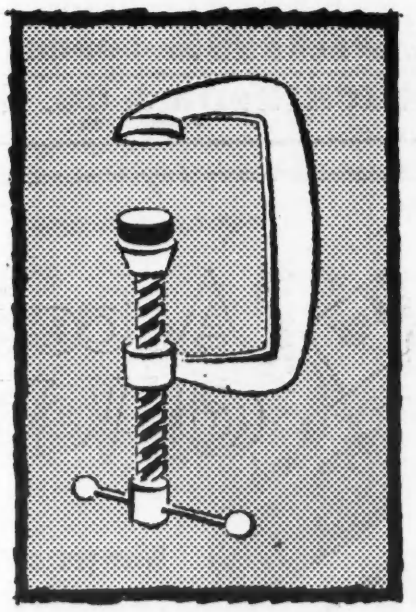
INDUSTRY TESTED AND APPROVED

ROCHE
DRY VITAMIN E ACETATE

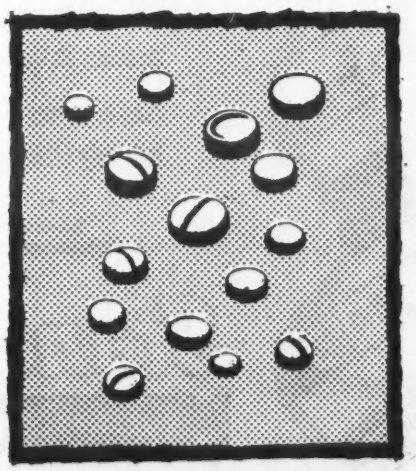
as *dl*-alpha Tocopherol (yl) acetate (International Reference Standard)

Pure • Potent • Pourable
Convenient • Compressible
White • Stable • Odorless

TWO TYPES—Granular and Fine Powder
POTENCIES—25% and 33%



- You get vitamin E tablets that are snow-white, small, highly potent (up to 200 mg., if desired), very stable, pharmaceutically elegant.
- You make high-potency *flat* tablets from Roche Vitamin E Acetate, granular type, directly by compression. You just add lubricant.
- You use dry Vitamin E Acetate Roche, fine powder type, for tablets with *curved* faces (a granulation process is required). Also for multi-vitamin tablets, capsules, special granulations, dietary supplements.
- You save labor, cut handling time and costs.
- You like the idea? Get samples and technical bulletin from your Roche representative, or write directly to us on your letterhead.



Rely on Roche, the leading producer of The International Standard for Vitamin E — a highly stable liquid form of high purity.

VITAMIN E COMES RIGHT FROM ROCHE

FINE CHEMICALS DIVISION • **HOFFMANN-LA ROCHE INC** • Nutley 10, N. J.
NOrth 7-5000 New York City: OXford 5-1400
In Canada: Hoffmann-La Roche Limited, 1956 Bourdon Street, St. Laurent, Montreal 9, P. Q.

ROCHE®

© 1960 HLR INC.

n-Alkyl Bromides

n-Alkyl bromides are less volatile, more reactive than their chlorine analogs. Most of these compounds are available in commercial quantities. If other similar compounds are of interest to you, we will be glad to discuss making them for you. Send for samples, technical bulletins, and prices today.

Methyl Bromide
Ethyl Bromide
Butyl Bromide
Hexyl Bromide
Lauryl Bromide
Myristyl Bromide
Cetyl Bromide
Stearyl Bromide

For fast, dependable service call

MICHIGAN CHEMICAL CORPORATION

Saint Louis, Michigan. Phone 4511 • New York 17: 230 Park Avenue. MU 3-5480

C-61-1

BROMINE POTASSIUM BROMIDE SODIUM BROMIDE

J. Q. DICKINSON & CO. :-: MALDEN, W. VA.

FOUNDED 1835

Accent on CONVENIENCE

When you package in metal tubes, you can take advantage of the functional design of the openings. These, in most cases, serve as applicators, providing extra convenience in using the product.

Any size, any style, any opening, but only ONE quality – Standard!

Look for "Standard" in your classified phone directory, under "Collapsible Tubes"

Standard

COLLAPSIBLE TUBE CO.

Rochester, Pa.

Offices in Principal Cities

X6

Drugs, Fine Chemicals

—Continued from page 38

desirable source of vitamin B_{12} for human use, it's believed.

Exports of B_{12} in December were worth $129,959, as against $47,210 in November, the Commerce department reports. Based on value, the largest shipments went to The Netherlands, $77,021; Canada, $17,940; Brazil, $7,800; Peru, $7,123; and Colombia, $4,865.

Botanicals

Belladonna — Higher shipping prices have forced dealers here to post a higher schedule for belladonna root. The quote is now 35c. to 38c. a pound, the low up 7c. from the earlier posting.

Unchanged and firm, the price for the leaves is 24c. to 26c. a pound.

Chamomile—A rebirth of interest is noted by several dealers here for chamomile. But unfortunately they're a bit pressed to get requisite supplies of the Hungarian flowers. Consequently, prices are up about 15c., to a range of $1 to $1.25 a pound.

Roman flowers are selling relatively well at prices long established ($1.50 to $1.75 a pound).

Quince Seed—Market remains very strong. Top of the price range is newly established at $2 a pound, but some material can still be had for $1.75, reportedly.

Tolu Balsam—There's not much material around, dealers in the New York area noted last week. This explains the $4 quote just posted.

Reciprocity: Legal, Illegal?

—Continued from page 7

cease and desist order containing inhibitions against:

- Conditions which in any way limited the freedom of the purchaser to handle the products of a competing line.
- Agreements regarding price maintenance.
- Agreements with independent dealers to fix retail prices, terms or conditions of sale.
- Agreements requiring dealers to carry a full line of respondent's products, carry quantities of the respondent's products designated by it, or refrain from advertising products of a competing line.
- Cancellation of contracts or threats to cancel because of failure to comply with the prohibited conditions.
- Contracts which enjoin or attempt to enjoin purchasers from engaging in business for an unreasonable period of time after termination of the contract.

This order, typical in its language and scope, was designed to close any possible loophole, obviating the need for subsequent litigation, Mr. Sheehy said.

NOW OVER **18,000** BIOS CHEMICALS

- CALCIUM FLUOZIRCONATE
- CALCIUM GLYCOCHOLATE
- CALCIUM MALATE
- CALCIUM METABORATE
- CALCIUM α-NAPHTHYLPHOSPHATE
- CALCIUM SUCRATE
- CALCIUM UNDECYLENATE
- CAMPHOQUINONE
- CAMPHOR SALICYLATE
- CAMPHYLAMINE
- CANTHARIDIN
- p-CARBAMYLPHENYLARSINE OXIDE
- CARBOXYBENZENESULFONIMIDE
- p-CARBOXYPHENYLARSINOXIDE
- CARNAUBIC ACID
- CARNAUBYL ALCOHOL

Ask for our new complete catalogue.

BIOS Laboratories Inc

17 West 60th St. New York 23, New York

Plaza 7-8171

HORMONES

DEHYDROCHOLIC ACID, N.F.
(Oral and Injectable Grades)

OX BILE USP

DRIED OX GALL POWDER

We invite your inquiries

GEDEON RICHTER
PHARMACEUTICAL PRODUCTS INC.
20 Exchange Place, New York 5, N. Y.

METOL

Monomethylparaminophenol Sulfate
Registered Trade Mark

TANNIC ACID GALLIC ACID
(U.S.P. and Technical Grades)

PYROGALLIC ACID
(U.S.P. and Technical Grades)

THE HARSHAW CHEMICAL CO.
CLEVELAND 6, OHIO

Cleveland • Chicago • Cincinnati • Detroit • Hastings-on-Hudson, N. Y.
Houston • Los Angeles • Philadelphia • Pittsburgh

PAINTS SPREAD SMOOTHER...

ADHESIVES GRIP TIGHTER...

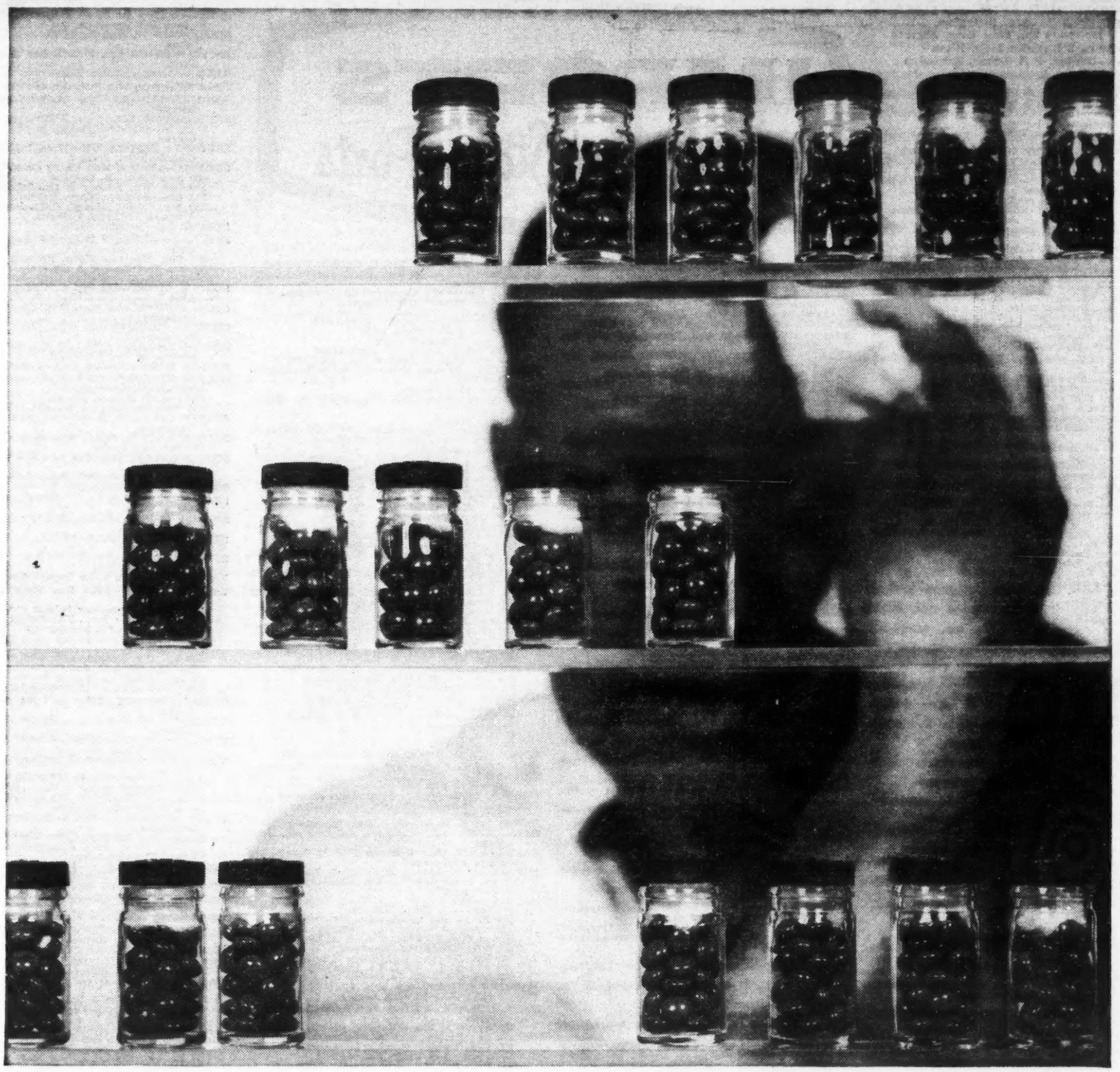
"AND NATURE-LY COUGH SYRUPS"

To make your product even better

KEEP MEER IN MIND! Paints or polishes, fabrics or pharmaceuticals, Meer natural products can make almost any product perform better. Write for comprehensive catalog.

MEER CORPORATION NEW YORK, 318 West 45th Street, New York 36, New York. JUdson 6-0900. Cable Address: "Merelis." New York; CHICAGO: 325 West Huron Street, Chicago 10, Ill. MIchigan 2-8895; PLANT, 9412 Railroad Avenue, North Bergen, N. J.; CANADA: SODEN CHEMICALS, Division of Witco Chemical Company, Canada Ltd.

"Natural Products are our only business"



how wilt-proof is the **vitamin A?**

The time it may take for a bottle of vitamins to move in hot weather can go hard with vitamin A. The production run might have been made under moisture conditions higher than usual. Or the formula may incorporate hygroscopic ingredients. Either way, potency trouble.

But when we make *Myvax® Dry Vitamin A*, we do something to check drastic potency drop-offs. We use the palmitate ester.

Among commercial esters of vitamin A only the palmitate hangs on to 94% of its potency after sitting around *in finished tablets* for 60 days in a cooked-up test humidity of 79%, room temperature.

Myvax Dry Vitamin A Palmitate is available in tiny edible gelatin spheres of medium (30-60) mesh or fine (60-120) mesh size. Either delivers 500,000 USP units of vitamin A per gram, and can be had with vitamin D as well. Shipment is swift, right from stock.

Ask for samples. Technical consultation is available, too. Get both from ***Distillation Products Industries,*** Rochester 3, N. Y. Sales offices: New York and Chicago • W. M. Gillies, Inc., West Coast • Charles Albert Smith Limited, Montreal and Toronto.

leaders in research and production of vitamin A

DPi

Also . . . vitamin E . . . distilled monoglycerides . . . some 3800 Eastman Organic Chemicals for science and industry

Distillation Products Industries *is a division of* **Eastman Kodak Company**

IMPORTS at United States Ports

New York

ACENAPHTHENE—67 dms, Rotterdam
ACONITE ROOT—33 bgs, Meer Corp, Alicante
AGAR—100 cs, S B Penick & Co, Pusan
ALBUMIN—300 bgs, P A Gaynar, Rotterdam
ALGINATES—60 dms, Olympic Shipping Co, Bremen
AMMONIUM BICARBONATE—100 dms, Chemical Manufacturing Co, Liverpool
AMMONIUM CARBONATE—84 dms, American Firstoline Corp, Rotterdam
40 dms, American British Chemical Supplies, Glasgow
AMMONIUM CHLORIDE—154 bgs, Rotterdam
AMMONIUM PERSULFATE—100 dms, Mohegan International, Rotterdam
AMMONIUM SULFATE—12 dms, Worthy Chemicals Inc, Liverpool
5 dms, Terra Chemicals Inc, Bremen
AMYRIS OIL—6 dms, Olfactors Inc, Miragoane
4 dms, Lo Curto & Funk, Miragoane
ANILINE DYES—27 dms, Carbic Hoechst Corp, Rotterdam
30 dms, C Hardy, Havre
25 dms, H Bruckmann & Lorbacher, Hamburg
2 dms, H Bruckmann & Lorbacher, Bremen
52 dms, Geigy Chemical Corp, Bremerhaven
47 dms, Geigy Chemical Corp, Havre
9 dms, Heemsoth Kerner, Liverpool
10 dms, Bremerhaven
46 dms, Rotterdam
ANIMAL CHARCOAL—1,200 bgs, Mincing Trading Corp, Glasgow
ANTIMONY—420 cks, Hull
ARABIC GUM—450 bgs, Chemical Bank, Port Sudan
150 bgs, Brown Bros, Port Sudan
250 bgs, Irving Trust Co, Port Sudan
ASBESTOS FIBER—1,200 bgs, N American Asbestos Corp, Durban
2,000 bgs, Johns Manville Corp, Durban
BARBASCO ROOT—1,944 bls, S B Penick & Co, Callao
BARIUM CHLORATE—40 dms, Tar Residuals Inc, Rotterdam
BARIUM NITRATE—160 dms, Hummel Chemical Co, Bremen
BEESWAX—35 bgs, Porcella Vicini & Co, Puerto Plata
50 bgs, Machado & Co, Ciudad Trujillo
46 bgs, Baldini & Co, Tampico
84 bgs, J W Hanson Co, Porto Alegre
93 bgs, International Commodities Corp, Valparaiso
62 bgs, Puerto Plata
100 bgs, Tampico
11 bls, Progreso
9 bgs, Sanchez
BOIS DE ROSE OIL—10 dms, Northam Trading Co, Callao
n-BUTYL DIETHYL MALONATE—9 dms, Geigy Chemical Corp, Liverpool
CALCIUM CARBONATE—1,000 bgs, Whittaker Clark & Daniels, London
1,000 bgs, Whittaker Clark & Daniels, Hull
1,200 bgs, Tamm Industries Co, Hull
600 bgs, Hammill & Gillespie, Hull
600 bgs, Pluess Staufer, Antwerp
CALCIUM CARBONATE, PRECIPITATED—300 bgs, H J Baker & Bro, Liverpool
CANA CORA ROOT—23 bgs, F D Keller & Son, Tampico
CANDELILLA WAX—188 bgs, Smith & Nichols, Tampico
188 bgs, Wm Diehl & Co, Tampico
626 bgs, Tampico
CARAWAY SEED—500 bgs, Louis Furth, Rotterdam
150 bgs, Levy & Levis Co, Rotterdam
100 bgs, J Bieler, Rotterdam
100 bgs, Frank Tea & Spice Co, Rotterdam
150 bgs, P H Petry, Rotterdam
200 bgs, M J Golombeck, Rotterdam
200 bgs, Internatio Rotterdam, Rotterdam
200 bgs, Rotterdam
CARBON TETRACHLORIDE—40 dms, Genoa
CARBOXYMETHYL CELLULOSE MAHOL—440 bgs, Procter & Gamble Co, Gothenburg
CARNAUBA WAX—56 bgs, Wm Diehl & Co, Fortaleza
56 bgs, Frank B Ross, Fortaleza
112 bgs, Toronto Dominion Bank, Fortaleza
267 bgs, M Argueso & Co, Fortaleza
56 bgs, J W Hanson Co, Fortaleza
22 bgs, Dura Commodities Corp, Rotterdam
CASCARILLA BARK—163 pks, S B Penick & Co, Matarani
CASEIN—6,200 bgs, J R Spellacy, Melbourne
1,000 bgs, A J Mills & Co, Melbourne
500 bgs, National Casein Sales, Buenos Aires
600 bgs, F C Cerlach, Buenos Aires
617 bgs, Hamburg
CASHEW NUT SHELL LIQUID—114 tons, Colloyd Chemical Lab, Lourenco Marques
CASSIA—125 bls, R J Spitz, Saigon
250 bls, A G Dunn, Saigon
1,064 bls, K H Landes & Co, Rotterdam
49 bls, Ludwig Mueller, Rotterdam
658 bls, Rotterdam
CASTOR OIL—260 tons, G Degen & Co, Recife
CELERY SEED—169 bgs, C M Van Sillevoldt, Bombay
CHLORINATED RUBBER—507 bgs, C M C Chemicals Inc, Liverpool
CINNAMON BARK—109 bgs, C Czarinkow, Mombasa
120 bgs, Mombasa
CINNAMON QUILLS—50 bls, Max Van Pels, Colombo
40 bls, Curacao Trading Co, Colombo
50 bls, Delano Corp of America, Colombo
CITRONELLA OIL—5 dms, Givaudan Corp, Keelung
25 dms, George Uhe Co, Keelung
25 dms, Keelung
CLOVE—200 bgs, George Luecers & Co, Tamatave
100 bgs, L A Champon & Co, Tamatave
200 bgs, East India Trading Co, Tamatave
1,350 bgs, Tamatave
CLOVE OIL—24 dms, Fritzsche Bros, Tamatave
10 dms, George Luecers & Co, Tamatave
5 dms, D W Hutchinson & Co, Tamatave
18 dms, Givaudan Corp, Tamatave
45 dms, L A Champon & Co, Tamatave
22 dms, Schulton Inc, Tamatave
24 dms, Zanzibar
COCONUT OIL—81 tons, Fallek Products Co, Rotterdam
250 tons, Pacific Vegetable Oil Corp, Manila
COPAL GUM—140 bkt, S Winterbourne & Co, Macassar
127 bkts, Wm H Scheel, Macassar
100 bkts, O G Innes Corp, Macassar
130 bgs, Wm H Scheel, Manila
64 bgs, S Winterbourne & Co, Manila
COPPER CYANIDE—100 dms, Chemical Manufacturing Co, Liverpool
CORN OIL—145 tons, Corn Products Co, Hamburg
540 tons, Corn Products Co, Rotterdam
CORN STARCH—430 bgs, Rotterdam
250 bgs, Capetown
CREAM OF TARTAR—60 bgs, Nylos Trading Co, Genoa
CUMIN SEED—673 bgs, Khorramshahr
CUTTLEFISH BONE—50 cs, Takoradi
DAMMAR GUM—64 bgs, S Winterbourne & Co, Singapore
50 cs, S Winterbourne & Co, Bangkok
DEGRAS—10 dms, Olympic Shipping Co, Liverpool
29 bbls, Nehls & O'Connell, Hamburg
DEXTRIN—400 bgs, Manufacturers Trust Co, Rotterdam
200 bgs, Rotterdam
DIACETYL—20 cs, Lo Curto & Funk, Hamburg
DOGWOOD BARK—20 bgs, Alcor Lab, Port Au Prince
DUBOISIA LEAVES—41 bls, A W Fenton, Sydney
23 bls, A W Fenton, Brisbane
DYES, COALTAR—6 dms, Toms River Chemical Corp, Rotterdam
27 dms, H Bruckmann & Lorbacher, Hamburg
41 dms, Orlex Dyes & Chemical Corp, Hamburg
EARTH COLORS—1,720 bgs, United Ultramarine & naca
1,360 bgs, Naftone Inc, Rotterdam
1,720 bgs, United Ultramarine & Chemical Co, Rotterdam
1,200 bgs, Naftone Inc, Bremen
FERRIC GLYCEROPHOSPHATE—2 cks, Havre
FERRIC SULFATE—50 dms, Hudson Shipping Co, Liverpool
GELATIN—225 bgs, Transatlantic Animal By Products Corp, Hamburg
200 bgs, T M Duche & Sons, Antwerp
387 bgs, Manhattan Adhesives Corp, Hamburg
300 bgs, King Shipping Co, Hamburg
921 bgs, First National Boston, Hamburg
208 dms, Corbett & Co, Marseille
73 dms, B Young, London
448 bgs, Davis Gelatine Inc, Sydney
96 dms, H Bruckmann & Lorbacher, Rotterdam
270 bgs, Royal Bank of Canada, Havre
150 cks, Havre
GERANIUM OIL—1 dm, Syn Fleur Scientific Lab, Tamatave
1 dm, Perry Bros, Tamatave
4 dms, Centflor Manufacturing Co, Tamatave
2 dms, Polarome Manufacturing Co, Tamatave
2 dms, Polarome Manufacturing Co, Marseille
9 dms, Adrian & Co, Marseille
3 cks, A Verley & Co, Marseille
1 dm, A Chiris Co, Algiers
GINGER—56 bgs, C M Van Sillevoldt, Kingston
62 bgs, Fre-Bar Inc, London
80 bgs, Kellys America Ltd, Cochin
80 bgs, Cochin
200 bgs, Apapa
GLUCOSE—7 dms, American Key Products, Rotterdam
GLUESTOCK—650 bls, R Remis & Co, Puerto Cabello
GLUTAMIC ACID—10 dms, Rotterdam
GRAPHITE—300 bgs, Joseph Dixon Crucible Co, Bremen
250 bgs, Superior Graphite Co, Colombo
600 bgs, Asbury Graphite Mills, Bremen
600 bgs, Asbury Graphite Mills, Colombo
500 bgs, Bankers Trust Co, Tamatave
1,574 bgs, Joseph Dixon Crucible Co, Tamatave
GUAR GUM—2,600 bgs, Stein Hall & Co, Bombay
500 bgs, Wedeman & Godknecht, Genoa
GURJUN BALSAM—5 dms, Dodge & Olcott, Singapore
GYPSUM—800 bgs, C B Chrystal Co, Liverpool
HAARLEM OIL—25 cs, Chas L Huisking & Co, Rotterdam
10 cs, Menger Manufacturing Co, Rotterdam
HELLEBORE ROOT—100 bls, Dubrovnik
HYDROFLUORIC ACID—40 dms, Liverpool
HYDROXYCITRONELLAL—5 dms, George Uhe Co, Marseille
3 dms, Fleuroma Inc, Marseille
IODINE, CRUDE—560 kgs, Chilean Nitrate Sales Corp, Antofagasta
176 kgs, Antony Gibbs & Co, Antofagasta
114 kgs, Mitsubishi Corp, Yokohama
IPECAC ROOT—11 bgs, J M Rodriguez, Cristobal
4 bls, Chemical Bank, Santos
IRON BLUE—93 dms, Van Ommen & Co, Liverpool
IRON CARBONYL—54 dms, H Bruckmann & Lorbacher, Rotterdam
IRON OXIDE—1,000 bgs, Malaga
ISOCHINOLIN—10 dms, Terra Chemicals Inc, Rotterdam
JUNIPER BERRIES—84 bgs, K H Landes & Co, Leghorn
82 bgs, Leghorn
300 bgs, Dubrovnik
JUNIPER OIL—2 cs, Magnus Mabee & Reynard, Rijeka
KARAYA GUM—187 bgs, Block Drug Co, Bombay
288 bgs, Colony Import & Export Corp, Bombay
662 bgs, Jacques Wolf & Co, Bombay
122 bgs, Stein Hall & Co, Bombay
LABDANUM GUM—2 dms, Noville Essential Oil Co, Alicante
LACTOSE—30 dms, Mutchler Chemical Co, Rotterdam
200 bgs, Mutchler Chemical Co, Rotterdam
44 dms, D Hauser, Rotterdam
LAVENDER FLOWERS—30 bgs, Max Van Pels, Alicante
LAVENDER OIL—3 cs, Yarley of London, London
LAVANDIN OIL—5 dms, Polarome Manufacturing Co, Marseille
20 dms, George Uhe Co, Marseille
10 dms, Charabot & Co, Marseille
10 dms, Ungerer & Co, Marseille
LEAD CARBONATE—400 bgs, Rotterdam
LEAD, RED—100 bgs, Rotterdam
LEMONGRASS OIL—18 dms, Maywood Chemical Works, Cochin
LICORICE ROOT—460 bls, Wm E Martin & Sons, Piraeus
LIME OIL—2 dms, Citrus & Allied Essential Oils Co, Puerto Plata
LITHARGE—160 bgs, Rotterdam
LOCUST BEAN GUM—250 bgs, P A Dunkel, Rotterdam
45 bgs, T M Duche & Sons, Rotterdam
448 bgs, Stein Hall & Co, Genoa
MACE—20 cs, Catz American Co, Rotterdam
70 cs, Magna Enterprises, Macassar
MAGNESITE—400 bgs, Smith Chemical & Color Co, Rotterdam
20 kgs, Jerdan Chemical Corp, Hamburg
MAGNESITE, DEADBURNT—1,000 tons, Solit
MAGNESIUM CARBONATE—25 cs, Lo Curto & Funk, Antwerp
MALEIC ANHYDRIDE—4 dms, Rio de Janeiro
MANGROVE EXTRACT—700 bgs, Saxe Cutch Corp, Sandakan
MARJORAM—90 bgs, Foreign Domestic Distributors, Callao
MENTHOL—20 dms, George Uhe Co, Marseille
22 dms, Chase Manhattan Bank, Marseille
10 dms, Biddle Sawyer Corp, Marseille
50 cs, Lo Curto & Funk, Santos
50 cs, Fritzsche Bros, Santos
6 cs, Fritzsche Bros, Pusan
230 cs, Paul A Dunkel, Santos
145 cs, American Far Eastern Syndicate, Santos
225 cs, Mitsui & Co, Santos
50 cs, Kane Import Corp, Santos
100 cs, George Uhe Co, Santos
150 cs, Fritzsche Bros, Santos
MERCURIC OXIDE—58 cs, Troy Chemical Co, Rotterdam
MERCURY—50 flks, Lo Curto & Funk, Tampico
MINERAL LUBRICATING OIL—200 dms, Asiatic Petroleum Corp, Rotterdam
MINERAL WAX—500 bgs, Hamburg
MONOCHLOROACETIC ACID—160 dms, Bremen
MONOSODIUM GLUTAMATE — 200 dms, E S Thomas & Co, Rotterdam
MUSTARD SEED—300 bgs, C Gulden, Massawa
NAPHTHALENE—1,039 bgs, Allied Chemical Corp, Liverpool
1,179 bgs, Witco Chemical Co, Liverpool
419 bgs, Koppers Co, Liverpool
320 bgs, J N Forker, Liverpool
150 bgs, Allied Chemical Corp, Hull
840 bgs, J N Forker, Hull
701 bgs, Koppers Co, Hull
2,995 bgs, H A Gogarty, Rotterdam
500 bgs, Gallard Schlesinger, Antwerp
NAPHTHOL—23 dms, H Bruckmann & Lorbacher, Hamburg
NIACIN—4 bbls, Genoa
NICOTINAMIDE—40 bbls, Freedman & Slater, Genoa
40 bbls, Genoa
NIGER SEED—62 bgs, S B Penick & Co, Massawa
100 bgs, W L Willner Co, Massawa
290 bgs, Massawa
NUTMEG—27 bgs, R J Spitz, Rotterdam
67 bgs, Ludwig Mueller, Rotterdam
42 bgs, Knickerbocker Mills, Singapore
72 bgs, Dodge & Olcott, Singapore
130 bgs, Singapore
OCOTEA CYMBARUM OIL—50 dms, American Metagraph Co, Itajai
24 dms, Stein Hall & Co, Itajai
35 dms, Ernst Roth & Co, Itajai
22 dms, Fritzsche Bros, Itajai
46 dms, Norda Essential Oil & Chemical Co, Rio de Janeiro
OLEORESIN PAPRIKA—1 dm, J Weinstein, Alicante
OLIVE OIL—24 dms, National City Bank, Seville
296 dms, Swiss Credit Bank, Seville
148 dms, Bankers Trust Co, Seville
48 dms, Hanover Bank, Seville
100 dms, Albarosa Co, Seville
85 dms, A N Cory, Seville
121 dms, Chase Manhattan Bank, Seville
50 dms, First National Detroit, Seville
221 dms, Atlantic Bank of N Y, Seville
984 dms, Swiss Credit Bank, Malaga
75 dms, Hanover Bank, Malaga
223 dms, Bankers Trust Co, Malaga
248 dms, National City Bank, Malaga
48 dms, Atlantic Bank of N Y, Malaga
90 dms, Malaga
25 dms, Marseille
10 dms, Seville
OPIUM—100 cs, S B Penick & Co, Calcutta
ORANGE OIL—3 dms, Fritzsche Bros, Kingston
ORANGE OIL, BITTER—2 dms, Citrus & Allied Essential Oils Co, Puerto Plata
ORANGE PEEL—30 bls, Meer Corp, Alicante
OREGANO LEAVES—221 bgs, H Marmorek & Son, Tampico
200 bls, H Marmorek & Son, Piraeus
OSSEINE—672 bgs, Chalmers Gelatine Co, Antwerp
PALMKERNEL OIL—1,446 cs, B M T Commodity Corp, Rotterdam
PAPAIN—70 cs, Chas L Huisking & Co, Mambasa
68 cs, Bemo Shipping Co, Mombasa
20 cs, Mombasa
PAPRIKA—200 bgs, W L Willner, Alicante
250 bgs, A A Sayia, Alicante
100 bgs, J Rossi, Alicante
1,740 bgs, J Weinstein, Alicante
25 bgs, Wm E Hartin & Sons, Alicante
400 bgs, Meer Corp, Hamburg
200 bgs, National City Bank, Hamburg
100 bgs, Van Loan & Co, Hamburg
150 bgs, Gel Spice Co, Hamburg
PARSLEY LEAVES—200 bbls, Istanbul
PATCHOULI OIL—12 dms, London
PEPPER, BLACK—320 bgs, East India Trading Co, Cochin
160 bgs, C M Van Sillevoldt, Cochin
160 bgs, Ludwig Mueller, Cochin
140 bgs, Ludwig Mueller, Singapore
1,520 bgs, A G Dunn, Alleppey
240 bgs, Mincing Trading Corp, Alleppey
240 bgs, Reliable Mercantile Co, Alleppey
320 bgs, A G Dunn, Cochin
140 bgs, A G Dunn, Singapore
240 bgs, Alleppey
PEPPER, RED—30 bgs, American Commerce Co, Yokohama
100 bgs, Kobe
70 bgs, Mombasa
1,009 bgs, Istanbul
PEPPER, WHITE—490 bgs, Singapore
PERCHOROETHYLENE—418 dms, International Selling Corp, Marseille
PHENOBARBITAL—20 cs, Frank Samuel & Co, Rotterdam
PHENYLMERCURIC ACETATE—51 dms, W A Cleary Corp, Rotterdam
POLLACKLIVER OIL—50 dms, Mitsubishi Corp, Yokohama
POLYVINYL CHLORIDE—40 bgs, Electro Chemical Processes Inc, Antwerp
POPPYSEED—200 bgs, Hoger Corp, Rotterdam
200 bgs, M J Golombeck, Rotterdam
100 bgs, Biddle Purchasing Co, Rotterdam
250 bgs, H Rubinoff & Co, Rotterdam
250 bgs, Levy & Levis Co,—WHERE .. ....
200 bgs, Sokol & Co, Rotterdam
500 bgs, Louis Furth, Rotterdam
150 bgs, P H Petry, Rotterdam
200 bgs, Izmir
POTASH, CAUSTIC—198 dms, B T Chemco Inc, Gothenburg
POTASH CHROME ALUM—400 bgs, A C Trask Co, Manchester
POTASH, MURIATE—2,275 tons, Potash Import & Chemical Corp, Bremen
POTASH, SULFATE—45 tons, Potash Import & Chemical Corp, Bremen
POTASSIUM FERROCYANIDE—600 bgs, Filo Color & Chemical Corp, Rotterdam
POTASSIUM PHOSPHATE—100 bgs, Hudson Shipping Co, Rotterdam
POTATO STARCH—415 bgs, American Key Products, Rotterdam
PYRETHRUM EXTRACT—14 dms, Prentiss Drug & Chemical Co, Mombasa
50 dms Mombasa
PYRETHRUM EXTRACT, CONCENTRATE—12 dms, Mombasa
QUEBRACHO EXTRACT—1,059 bgs, Tanimex Corp, Buenos Aires
5,567 bgs, American Tanners Ltd, Buenos Aires
1,406 bgs, International Products Corp, Buenos Aires
3,093 bgs, Barkey Importing Co, Buenos Aires
531 bgs, First National Chicago, Buenos Aires
QUINCE SEED—128 bgs, Meer Corp, Khorramshahr
QUININE—30 cs, Lo Curto & Funk, Bremen
QUININE SULFATE—4 kgs, Frank Samuel & Co, London
RHATANY ROOT—63 bgs, Callao
ROSEMARY LEAVES—200 bgs, M J Golombeck, Lisbon
RUTILE SAND—1,003 bgs, Lo Curto & Funk, Brisbane
RUTIN—10 dms, Lo Curto & Funk, Sydney
15 dms, S B Penick & Co, Sydney
SACCHARIN—10 dms, Frank Samuel & Co, Yokohama
SAFFLOWER—13 bgs, F D Keller & Sons, Vera Cruz
SAGE LEAVES—300 bls, Dubrovnik
SAGE OIL—2 cs, Wm E Martin & Sons, Dubrovnik
SANDALWOOD—154 bgs, National City Bank, Bombay
SANDALWOOD OIL—5 cs, J Berlage, Cochin
9 cs, International Flavors & Fragrances Inc, Cochin
SAPONIUM DEPURATUM—17 cs, Prentiss Drug & Chemical Co, Bremen
SEEDLAC—250 bgs, Wah Chang Corp, Bangkok
400 bgs, Parks Co, Calcutta
100 bgs, Wm Zinsser & Co, Calcutta
250 bgs, Mantrose Corp, Calcutta
250 bgs, Capitol Shellac Corp, Bangkok
250 bgs, C H Timm, Calcutta
SESAME OIL—50 dms, Aarhus
SHELLAC—104 bgs, F H Paul & Stein Bros, Bremen
400 bgs, Mantrose Corp, Bremen
50 bgs, Wm Zinsser & Co, Calcutta
50 bgs, Haeuser Shellac Corp, Calcutta
SIENNA, BURNT—150 bgs, C B Chrystal Co, Larnaca
SODA, CAUSTIC—54 dms, B T Chemco Inc, Gothenburg
SODIUM ALGINATE—45 dms, Stein Hall & Co, Glasgow
SODIUM BICARBONATE—500 bgs, Chemical Manufacturing Co, Liverpool
SODIUM BROMATE—150 dms, Rotterdam
SODIUM CYANIDE—350 dms, Chemical Manufacturing Co, Liverpool
165 dms, D Hauser, Antwerp
750 dms, American Cyanamid Co, Hull
SODIUM CYCLAMATE—40 dms, Foster T Smith, Yokohama
SODIUM LAURYL SULFATE—53 dms, Liverpool
161 cks, Manchester
SODIUM PHOSPHATE—700 bgs, M J Corbett, Rotterdam
220 dms, M J Corbett, Rotterdam
SODIUM SILICOFLUORIDE—200 bgs, Hamburg
SPEARMINT OIL—10 cs, Lo Curto & Funk, Yokohama
STARCH—830 bgs, Morningstar Paisley Inc, Rotterdam
STRONTIUM CHLORIDE—14 bgs, Terra Chemicals Inc, Bremen
STRONTIUM HYDROXIDE—23 bgs, Terra Chemicals Inc, Bremen
TAPIOCA—300 bgs, Kane Import Corp, Itajai
TAPIOCA FLOUR—1,720 bgs, Stein Hall & Co, Kohsichang
1,568 bgs, Morningstar Paisley Inc, Kohsichang
762 bgs, Brown Bros, Kohsichang
790 bgs, Poons Co, Kohsichang
1,008 bgs, Geismar & Co, Kohsichang
1,680 bgs, Tapioca Associates, Kohsichang
600 bgs, P A Houghton, Kohsichang
1,653 bgs, Tapioca Associates, Itajai
55 bgs, American Metagraph Co, Itajai
565 bgs, Manhattan Adhesives Corp, Penang
TAPIOCA STARCH—143 bgs, Corn Products Co, Rotterdam
TARTARIC ACID—240 bgs, Byron Chemical Co, Palermo
THYROID POWDER—12 dms, Cosmos Shipping Co, Buenos Aires
TOLU BALSAM—5 dms, Fritzsche Bros, La Libertad
5 dms, Meer Corp, La Libertad
6 dms, Magnus Mabee & Reynard, La Libertad
5 dms, J M Rodriguez, La Libertad
10 cs, P H Petry, London
TRAGACANTH GUM—59 bgs, Am-Iran Corp, Khorramshahr
5 cs, Orbis Products Corp, Khorramshahr
145 bgs, Meer Corp, Khorramshahr
19 bgs, Khorramshahr
TRICHLOROETHYLENE—440 tons, International Selling Corp, Marseille
TUNG OIL—399 tons, Buenos Aires
ULTRAMARINE BLUE—432 bgs, Whittaker Clark & Daniels, Hull
UMBER—100 bgs, Harlo Expeditors, Larnaca
UNDECYCLENIC ACID—47 dms, International Selling Corp, Marseille
UREA—1,251 bgs, Rotterdam
UREA, SYNTHETIC—3,983 bgs, Chemical Manufacturing Co, Liverpool
VANILLA BEANS—5 cs, L A Champon & Co, Marseille
16 cs, Frank Tea & Spice Co, Tamatave
47 cs, Lo Curto & Funk, Tamatave
45 cs, Dammann & Co, Tamative
12 cs, Centflor Manufacturing Co, Tamtaave
122 cs, National City Bank, Tamatave
25 cs, L A Champon & Co, Tamatave
91 cs, Morningstar Paisley Inc, Tamatave
104 cs, Madagascar Agencies, Tamatave
117 cs, J Manheimer, Tamatave
493 cs, Gillespie & Co, Tamative
49 cs, Tamative
VETIVER OIL—2 dms, L A Champon & Co, Port Au Prince
4 cks, Verley & Co, Marseille
VIOMYCIN SULFATE—20 cs, Ciba Pharmaceutical Products, London
WATTLE BARK—1,083 bls, Bowring & Co, Capetown
1,087 bls, First National Chicago, Capetown
WATTLE EXTRACT—646 bgs, Hammond & Carpenter, Durban
WAX, SYNTHETIC—3,600 bgs, Moore & Munger, Durban
YACCA GUM—120 bgs, S Winterbourne & Co, Port Adelaide
YLANG YLANG OIL—3 cks, A Verley & Co, Marseille
ZINC CYANIDE—100 dms, Chemical Manufacturing Co, Liverpool
ZINC OXIDE—100 bgs, C B Chrystal Co, Marseille
160 bgs, B Young, Liverpool
600 bgs, Liverpool
1,000 bgs, Vera Cruz
ZINC YELLOW—200 bgs, Revelli Chemical Co, Antwerp
ZIRCON SAND—2,460 bgs, Lo Curto & Funk, Brisbane

Los Angeles

AGAR—20 bbls Moorhead Co, Barcelona
ALUMINUM FLUORIDE—991 bgs, A P L Chemical Co, Amsterdam
BARIUM CARBONATE—800 bgs, Westco Chemicals Inc, Antwerp
CALCIUM NITRATE—40,000 bgs, Wilson & Geo Meyer & Co, Heroya
CALCIUM PHOSPHATE, DIBASIC—1,102 bgs, J H Schroder, Antwerp
CASSIA—125 bls, K H Landes & Co, Saigon
COPRA—500 tons, Procter & Gamble Co, Medina
2,100 tons, Procter & Gamble Co, Cebu
950 tons, American Trust Co, Cebu
500 tons, Procter & Gamble Co, Nasipit
COPRA CAKE—2,240 bgs, Balfour Guthrie, Manila
FISHMEAL—2,185 bgs, Balfour Guthrie, Arica
18,123 bgs, Albumina Supply Co, Callao
1,457 bgs, Albumina Supply Co, Chimbote
14,263 bgs, Chimbote
GUAR GUM—1,000 bgs, Hathaway Allied Products, Genoa
HEXACHLOROETHANE—40 bgs, Henley & Co, Hamburg
LAVENDER FLOWERS—20 bls, Marseille
PEPPER, RED—100 bgs, Mitsui & Co, Yokohama
150 bgs, T P Gonzales, Yokohama
100 bgs, Yokohama
POTASSIUM CYANIDE—150 dms, Chemical Manufacturing Co, Hull

QUEBRACHO EXTRACT—800 bgs, Tanimex Corp, Buenos Aires
SESAME SEED—125 bgs, W R Grace & Co, Corinto
UREA—25,000 bgs, Wilson & Geo Meyer & Co, Heroya

Philadelphia

ARSENIC—25 dms, Indussa Corp, Antwerp
CASTOR OIL—100 tons, Fortaleza
MENTHOL—50 cs, Vicks Chemical Co, Santos
OLIVE OIL—125 dms, Phila National Bank, Seville
30 dms, Chase Manhattan Bank, Seville
PHENOBARBITAL—40 cs, Frank Samuel & Co, Rotterdam
QUEBRACHO EXTRACT—980 bgs, Tan American Corp, Buenos Aires
1,030 bgs, International Products Corp, Buenos Aires
TITANIUM DIOXIDE—2,204 bgs, Irving Trust Co, Kobe
ZINC—AMMONIUM CHLORIDE—66 bbls, Antwerp

San Francisco

AMMONIUM CHLORIDE—100 bgs, Chemical Manufacturing Co, Liverpool
ASBESTOS FIBER—4,780 bgs, Keasby & Mattison, Lourenco Marques
2,139 bgs, Johns Manville Corp, Lourenco Marques
500 bgs, N American Asbestos Corp, Durban
CALCIUM CHLORIDE—1,500 bgs, P W Bellingall, Trieste
CARAWAY SEED—100 bgs, California Commodities Corp, Rotterdam
CASEIN—100 bgs, Borden Co, Buenos Aires
1,320 bgs, Western Dairy Products, Melbourne
512 bgs, J R Spellacy, Sydney
CELERY SEED—35 bgs, Hismoco American Co, Bombay
CLOVE—100 bgs, Du[illegible]
DEXTRIN—100 bgs, H B Fuller & Co, Amsterdam
DILL SEED—10[illegible] bgs, California Commodities Corp, Bombay
LACTIC ACID—10 dms, A Millner, Manchester
MANGROVE EXTRACT—226 bgs, Lourenco Marques
MOLASSES—1,641 tons, Bank of America, Bayang Point
PAPRIKA—200 bgs, Barcelona
PEPPER, BLACK—210 bgs, California Commodities Corp, Singapore
PEPPER, RED—60 bgs, California Commodities Corp, Yokohama
100 bgs, Hismoco American Co, Kobe
POLYVINYL ALCOHOL—200 bgs, Kobe
SESAME SEED—150 bgs, W R Grace & Co, Corinto
250 bgs, E A Johnson, Corinto
600 bgs, B C Ireland, Corinto
SODIUM CHLORATE—100 dms, Bankers Trust Co, Marseille
SODIUM CYANIDE—150 dms, Chemical Manufacturing Co, Liverpool
TANKAGE—524 bgs, Tupman Thurlow, Buenos Aires
TAR PITCH—29 dms, International Paint Co, Glasgow
THIOUREA—200 bgs, Yokohama
UREA—2,500 bgs, Atkins Krott & Co, Antwerp

Chemical Men Disturbed

—*Continued from page 3*

familiar with the practices of the Soviet Union and its satellite countries as they affect commercial activity.

"They report no change in attitude, he said, toward the Free World or improvement in Soviet business practices that would warrant a more liberal policy in permitting export of reasonably recent technology and plants.

"Likewise," Mr. Hull added, "we deplore the apparent, more liberal policies on the part of other countries in the western world who have made, and are currently making, deals for items not permitted by our export policy.

"We respectfully suggest that in forthcoming discussions between the US and other countries of the western world, the United States should argue the desirability—indeed the essentiality—of a common policy on matters of this importance. In this same general connection, we also wish to point out that it is disturbing when we hear reports from our friends in Europe that some of our own government representatives are not in agreement with the US government's export policy."

Vitamins for Animals

—*Continued from page 3*

E, and a specialized group of feed mixes for poultry, swine, cattle and sheep.

Adolph Rosenberg, founder and former owner of the four companies, will continue to take an active role in animal nutrition matters as a consultant to Commercial Solvents.

Stabilized Vitamins, Inc., founded in 1952, reportedly was the first company in the US to make a stabilized form of vitamin A. The company today is a major producer, CSC says.

Commercial Solvents now supplies the feed industry with a broad line of antibiotic and water soluble vitamin products, including the "Baciferm" group of bacitracin antibiotic supplements, choline chloride, "Proferm" (vitamin B_{12}), riboflavin and an antibiotic silage preservative called "Silotracin."

Delhi-Taylor Ends Sale Of 23 Sand Gas Wells

Delhi-Taylor Oil Corporation, Dallas, Tex., has concluded the sale of twenty-three Dakota sand gas wells to El Paso Natural Gas Company. These wells were drilled by Delhi during 1960 and are located in the San Juan Basin, northwestern New Mexico.

A 1952 contract with El Paso provided that Delhi could drill wells in deeper formations not assigned to El Paso under the original contract and offer such wells to El Paso. Upon El Paso's agreement to purchase the wells, they are to be included under the 1952 contract. In accepting the twenty-three wells, El Paso has agreed to repay Delhi its cost of drilling, completing and equipping these wells, which totals approximately $2.7 million. In addition, El Paso has agreed to fully develop the Dakota formation under Delhi leases within five years, according to an announcement by Delhi-Taylor.

Food Additives Law

—*Continued from page 5*

shall be made to apply to a particular product.

As presently written the bill permits further extensions beyond the present March 6 deadline only for those products on which extensions to March 6 have already been granted.

This provision may be liberalized in committee, however, at the request of industry and FDA to cover products for which applications for extensions are pending or are filed before next Monday.

As of late last week, however, there were no signs of any rush by producers and food processors to get in under the wire with timely applications for extensions. By latest count of FDA there were only eighty-five applications "in the works" in the agency.

Even though applications for extensions are submitted prior to the March 6 deadline, agency officials point out that this is no guarantee that an extension will be allowed. Blanket extensions are to be held to the minimum and for the most part extensions will be covered on an individual basis on their own merits. Extensions will be granted only when it is shown that the necessary scientific work to prove safety is being pursued with diligence.

It's Important: 3,000 Items Say So

Some indications of the importance to the chemical industry of the extension legislation before congress is seen in the fact that more than 3,000 products have been given extensions under the law until March 6 while research work on their safety has been in progress. Without a further extension of time for this work to be completed, sale of any of these products for food uses after March 6 would be a violation of the law and the sellers subject to heavy penalties.

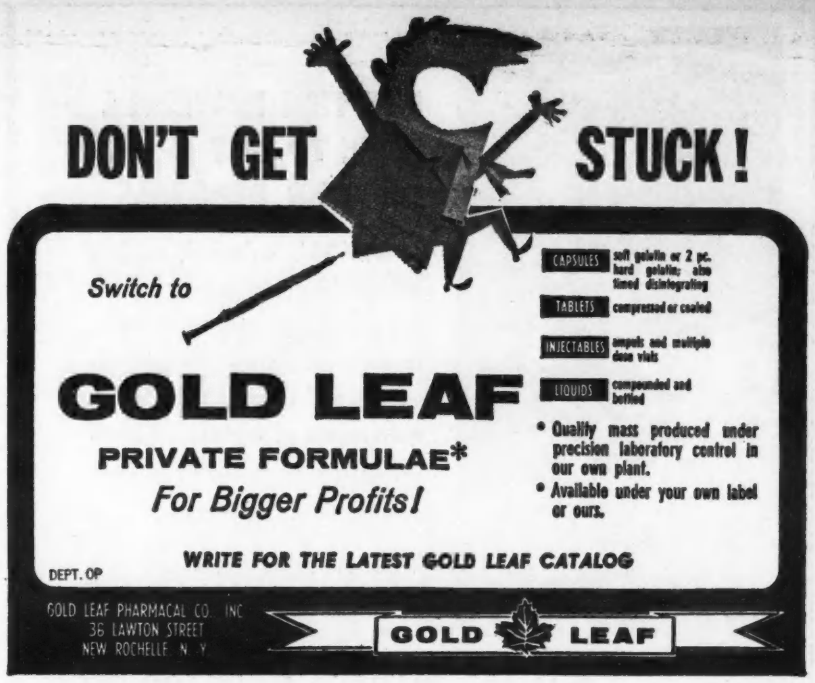
All told, there have been 391 petitions submitted to FDA under the food additives law and only slightly more than half, 197, were accepted for filing and put through the processing machinery. The others were either not in proper form or covered products outside the law.

Of the 197 accepted for filing, fifty-nine eventually resulted in the issuance of tolerance regulations while the products involved in fifty-three petitions were judged not to be food additives. FDA has also granted clearance to 513 products as being generally recognized as safe.

DuPont, GM Plea: Mercy

—*Continued from page 7*

Disputing duPont's contention that small shareholders would be hurt by divestiture, Mr. Davis pointed to duPont's own survey which, he said, showed that the holders of between one and 100 shares would pay an average of only $50 a year in taxes if divestiture was carried out in ten years as contemplated by the government.

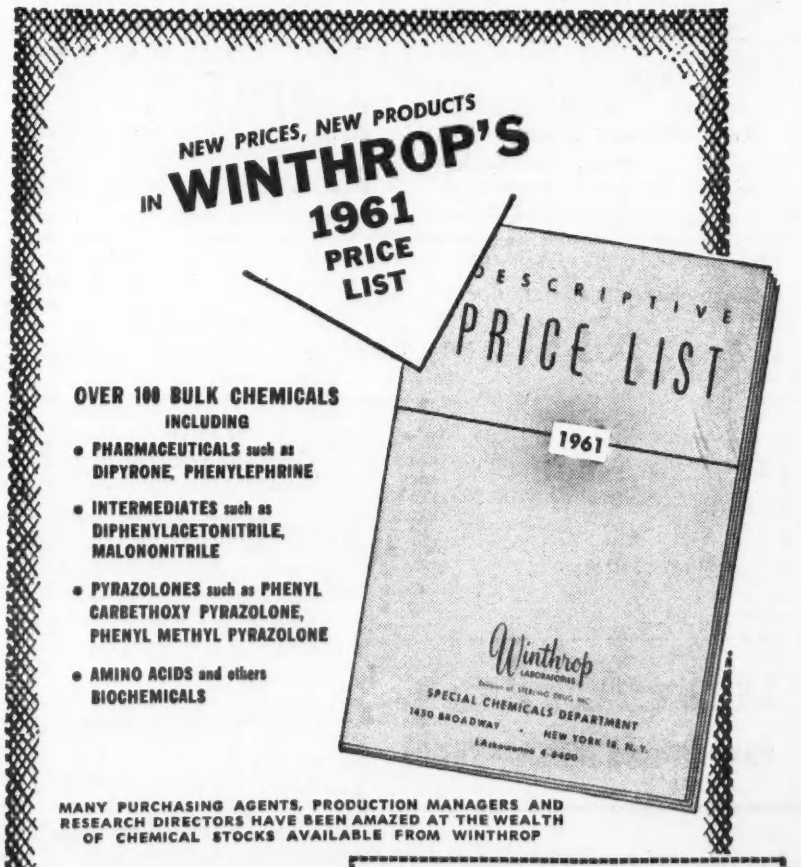

DON'T GET STUCK!
Switch to
GOLD LEAF
PRIVATE FORMULAE*
For Bigger Profits!
CAPSULES soft gelatin or 2 pc. hard gelatin; also timed disintegrating
TABLETS compressed or coated
INJECTABLES ampuls and multiple dose vials
LIQUIDS compounded and bottled
• Quality mass produced under precision laboratory control in our own plant.
• Available under your own label or ours.
WRITE FOR THE LATEST GOLD LEAF CATALOG
DEPT. OP
GOLD LEAF PHARMACAL CO., INC
36 LAWTON STREET
NEW ROCHELLE, N. Y.
GOLD LEAF

NEPERA

PIONEERS IN PYRIDINE CHEMISTRY
are the original and leading producers of the urinary analgesic

PHENYLAZODIAMINOPYRIDINE HCl

This formulation has for years been a standby analgesic for reducing pain, burning and urgency in infections of the urinary tract. For information concerning it, and Nepera's other pyridine products, call New York City—WO 6-3273—or write to
NEPERA CHEMICAL CO., INC., HARRIMAN, N.Y.


NEW PRICES, NEW PRODUCTS
IN WINTHROP'S
1961
PRICE
LIST
DESCRIPTIVE
PRICE LIST
1961
Winthrop
SPECIAL CHEMICALS DEPARTMENT
1450 BROADWAY
NEW YORK 18, N. Y.
OVER 100 BULK CHEMICALS
INCLUDING
• PHARMACEUTICALS such as DIPYRONE, PHENYLEPHRINE
• INTERMEDIATES such as DIPHENYLACETONITRILE, MALONONITRILE
• PYRAZOLONES such as PHENYL CARBETHOXY PYRAZOLONE, PHENYL METHYL PYRAZOLONE
• AMINO ACIDS and others BIOCHEMICALS
MANY PURCHASING AGENTS, PRODUCTION MANAGERS AND RESEARCH DIRECTORS HAVE BEEN AMAZED AT THE WEALTH OF CHEMICAL STOCKS AVAILABLE FROM WINTHROP
If you want something Special be prepared
FILL OUT THE COUPON FOR PROMPT MAILING.
Winthrop Laboratories Dept. OPD-2-27-1
Special Chemicals Dept.
1450 Broadway, New York 18, N. Y.
NAME .....
FIRM .....
STREET ADDRESS .....
CITY ..... ZONE ..... STATE .....

stanley blackman labs., inc.
so. hackensack, new jersey

Immediate Delivery

DI HYDROXY ACETONE

Commercial Quantities
At Realistic Prices

Wisconsin 7-5262 (N.Y.)
Diamond 3-3525 (N.J.)

PUT THIS POWERFUL URGE TO BUY IN YOUR AEROSOLS

In MM&R's enlarged, modern aerosol laboratory new perfume oils are being created constantly to keep abreast with rapid advances and to meet specific requirements of our customers in increasing the salability of their pressurized products.

Write for full information.

MAGNUS, MABEE & REYNARD, INC.

The World's Most Famous Supplier of Essential Oils, Basic Perfume Oils, and Concentrated Flavors.

16 DESBROSSES STREET • NEW YORK 13, N. Y.
221 NORTH LASALLE STREET • CHICAGO 1, ILLINOIS

GUMS
ARABIC
KARAYA
TRAGACANTH
LOCUST

PENICK
BOTANICAL AND ALLIED PRODUCTS DIVISION

S. B. PENICK & COMPANY
100 CHURCH ST., NEW YORK 8
735 W. DIVISION ST., CHICAGO 10

ESSENTIAL OILS • PERFUME OILS • FLAVORS • AROMATIC CHEMICALS and ODOR MASKS
Proven Replacements For: BERGAMOT OIL, CITRONELLA OIL, ANISE OIL, CASSIA OIL
DOMESTIC EXPORT — YOUR INQUIRIES SOLICITED
D. W. HUTCHINSON & CO., INC., 700 South Columbus Ave., Mount Vernon, N. Y.
Founded 1896 — Telephone: Mount Vernon 4-7272

AEROSOL BOUQUETS
FLAVORING EXTRACTS
MASKING ODORS
for INDUSTRIAL PURPOSES

by Florasynth LABORATORIES, INC
900 VAN NEST AVE., NEW YORK 62, N. Y.
Chicago 6, Los Angeles 21, and other principal cities in the U.S., Canada and Mexico

EUGENOL by FRITZSCHE

In the extraction of EUGENOL, we employ an exclusive process perfected by years of manufacturing experience. The result is a product measurably superior, both in odor quality and flavor to any competitive brand. We guarantee this superiority and will gladly supply trial samples for comparison tests.

FRITZSCHE BROTHERS, Inc.
76 NINTH AVENUE — NEW YORK 11, N. Y.
Branch Offices and *Stocks: Atlanta, Ga., Boston, Mass., *Chicago, Ill., Cincinnati, Ohio, Greensboro, N. C., *Los Angeles, Cal., Philadelphia, Pa., San Francisco, Cal., St. Louis, Mo., Montreal and *Toronto, Canada; *Mexico, D. F. and *Buenos Aires, Argentina. Plants: Clifton, N. J. and Buenos Aires, Argentina.

Essential Oils, Aromatics

Buying was reported to be fair to good but due possibly to the mid-week holiday, very little price changing was done. The only actual change in the essential oils was a minor 1 cent per pound decline in the price of ocotea cymbarum. The arrival of new crop material from Madagascar forced the price down for Bourbon vanilla beans some 15 cents per pound. Mexican cut and whole material remained at their previously-quoted levels. It was reported that Bourbon geranium advanced sharply at source, but this, of course, has not yet been felt on spot. The advance is somewhat of a mystery since the crop is said to be a particularly good one. Current source market for lemongrass is said to be strong although it is expected to weaken by spring when the new crop comes in.

United States participation for the establishment of a soft drink bottling plant in the Bahrein Islands (Persian Gulf) is sought by the Moon Stores of Manama, according to the Foreign Commerce Weekly, published by the US Department of Commerce.

The firm, a wholesaler, retailer, and importer of foodstuffs, general merchandise, cigarettes, etc., would like to diversify activities. In cooperation with a US firm, Moon Stores contemplates establishment of a plant to manufacture US soft drink products. Use of the US brand name, under a licensing arrangement, is desired. The firm also is interested in the direct purchase of soft drink products.

Firms may address inquiries to the Moon Stores, Barratt Road, P. O. Box 247, Manama, Bahrein.

It seems that there is a surplus of toothpaste in Viet-Nam.

According to the local press there, manufacturers of toothpaste have found that current monthly production of 45 to 50 metric tons exceeds domestic consumption and now they are seeking foreign markets. These manufacturers reportedly will ask the Government to withhold licenses for new toothpaste plants.

Not only is there over production, but the industry claims there is a prevalence of low-quality, cut-rate products.

Price Trends

Advanced
None

Reduced
Ocotea cymbarum, 1c. per lb.
Vanilla beans, Bourbon, 15c. per lb.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Feb. 26, 1960
143.46	143.47	144.08	146.84

For Current Prices see page 11

Essential Oils

Bay—The various types of material remain firm.

Puerto Rican, 50-55 percent material continues at $3.25 per pound; Puerto Rican 55-60 percent material continues at $3.60 per pound, and West Indian, 50-55 percent material continues at $3.75 per pound.

Cedarwood — Dealers report that there are very few offerings of cedarwood. The price is around $1 per pound.

The following is a brief historical outline of where cedarwood oil has come from and why:

• Before World War I, most of the commercial cedarwood oil was produced by manufacturers of cedar pencil slats. For these slats, they used large, old trees with few knots. But early in the 20th century, most of these old trees with straight, even grain, had been cut.

• Next, the pencil slat manufacturers started buying up old cedar fence rails and even old log cabins that had been built a generation or two before. This wood, while satisfactory for the manufacture of pencil slats, was almost totally useless as far as producing cedarwood oil. The sapwood had practically disappeared and the wood had been exposed to all kinds of weather for over 50 years.

• About this time the oil distillers began producing oil from the sawdust from recently-cut trees that were to be made into cedar chests and the like. These trees contained a good many knots and the grain was twisted, so the pencil slat manufacturers could not use it. These pencil slat manufacturers also said the oil was inferior and actually the oil that was produced had to be sold at a discount.

• The old rail fences and log cabins were being used up and the cedar slat business was gradually disappearing. A few people still manufacture cedar slats for pencils but it is such a small business that it is not worthwhile for them to save the sawdust and distill cedarwood oil from it. Also, cedar is not the only wood used in these operations, so the sawdust is not always all cedar.

• Nowadays cedarwood oil is distilled mostly from shavings left over from the manufacture of cedar chests, closet linings, wine coolers, etc. This wood comes from rather young trees.

Citronella—No change has been noted in the spot prices for either Ceylon or Java-type citronella. Ceylon material remains at $1 per pound and Java-type remains at $1.20 per pound.

Java-type material was said to be a little easier at source.

Geranium—Bourbon material is said to have seen a startling 20 percent advance at source.

No explanation is available except that demand is very strong. The crop is reported to be a good one.

It is, however, too soon to feel any reaction on spot. Prices continue at their previous levels. Bourbon continues at $20 per pound while Algerian continues at $19 per pound.

Lemongrass—The current source market in India is said to be strong. There is speculation that prices for the May-June crop will be lower, however. Supplies at the present time are said to be short.

Spot price remains unchanged.

Ocotea Cymbarum—A slight spot fluctuation on spot was noted.

From its previous price, 46 cents per pound, it dropped to 45 cents per pound.

Peppermint—Spot prices remain unchanged, but the tone is weak. Natural material is selling for as little as $5 per pound and redistilled material for $5.25 per pound.

Spearmint—No spot price change was reported. The overall market is said to be weak.

Seeds and Spices

Canaryseed—Argentine material has advanced in price. From its previous price, $8.40 per pound, it has advanced to $8.55 per pound.

Chillies—Turkish material has advanced in price from 28 cents per pound to 30 cents per pound.

Coriander seed—Roumanian material has advanced in price from 12 cents per pound to 13 cents per pound.

Marjoram—From its previous price, 20 cents per pound, Czech material has dropped to 18 cents per pound.

Nutmegs—West Indian material is weakening. In some cases it is as little as $1.13 per pound. East Indian material has dropped in price from $1.15 per pound to $1.12 per pound.

Pepper—There is still no spot quotation for Muntok white. Black material, however, has shown a slight advance in price. Both Malabar and Lampong black have advanced from their previous price, 46 cents per pound, to 47 cents per pound.

Rosemary—French material has declined in price from 13 cents per pound to 12 cents per pound.

Vanilla Beans—Dealers report that Bourbon vanilla beans have declined a bit in price. From their previous range, $7-$7.20 per pound, they have come down to $6.85-$7.10 per pound.

Mexican material remains at its previously-quoted level. Cut material continues to range between $7.25 and $7.50 per pound and whole material continues to range between $7.65 and $8.50 per pound.

Imports Detained at N.Y.

Week Ended February 10, 1961

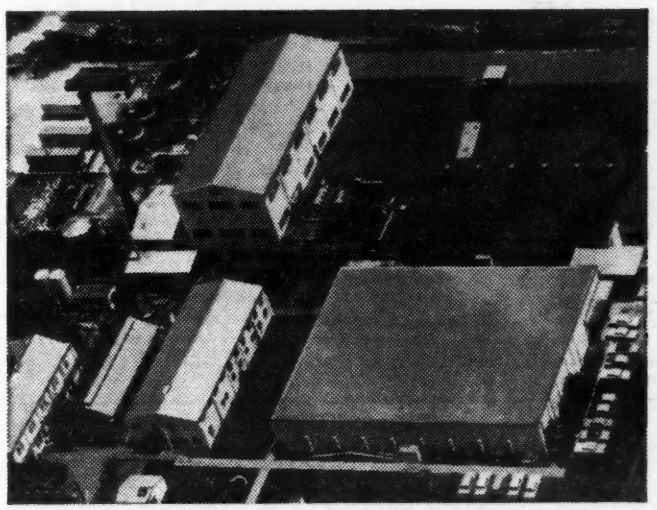
Anise seed, 2 lots, 300 bags.
Caraway seed, 200 bags.
Cassia, 11 lots, 1,491 bags.
Celery seed, 2 lots, 252 bags.
Chillies, 2 lots, 372 bags.
Nutmegs, 5 lots, 393 bags.

ONLY MINUTE MAID® OFFERS 100% PURE CITRUS ESSENTIAL OILS FROM FLORIDA AND CALIFORNIA!

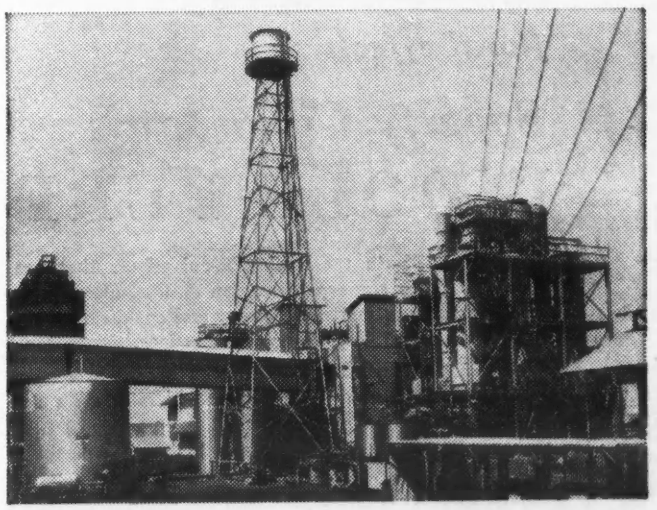
SUN-FILLED®

BRAND

Florida and California All-Valencia Orange Oils, Cold Pressed, U.S.P.
California Lemon Oil, Cold Pressed, U.S.P.
Florida and California Grapefruit Oils, Cold Pressed
Florida Lime Oil, Cold Pressed
Florida Tangerine Oil, Cold Pressed



Florida SUN-FILLED citrus oils are produced at 3 Minute Maid plants — Plymouth (shown above), Auburndale and Leesburg, Florida.



California SUN-FILLED citrus oils are produced at Minute Maid's Golden Citrus plant at Anaheim, California.

With extensive groves in Florida and California, Minute Maid is the *only* producer which gives you a choice of citrus essential oils from both of these great citrus-producing states. For example, Minute Maid offers *two* SUN-FILLED All-Valencia Orange Oils, Florida or California... both Cold Pressed, U.S.P., with true, rich Valencia Orange flavor, aroma and color.

All SUN-FILLED citrus essential oils are guaranteed 100% pure. You can use them with complete assurance because they're produced and packed under continuous U.S.D.A. inspection... completely protected against adulteration and sophistication by tamper-proof seals.

What's more, with SUN-FILLED citrus essential oils you're assured of highest quality. Minute Maid's strict quality control assures constant uniformity, batch after batch. When you buy SUN-FILLED you buy the very best! And you're always sure of ample, dependable supply from Minute Maid—America's largest producer of citrus products.

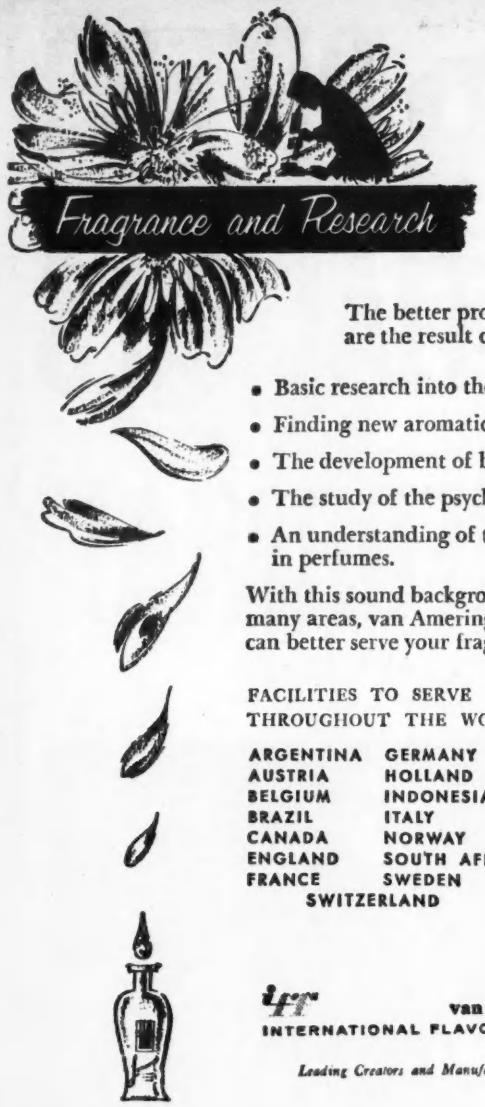
SUN-FILLED citrus essential oils are shipped in 35-lb. tins and 385-lb. drums. Write us now for free samples!

BOTTLERS AND BEVERAGE BASE MANUFACTURERS

Send for our free 4-color brochure on SUN-FILLED citrus essential oils and beverage concentrates. They're unmatched for adding true citrus fruit flavor, aroma and color to soft drinks!

CITRUS PRODUCTS DIVISION

MINUTE MAID CORPORATION
Orlando, Florida
New York, N. Y.: 420 Lexington Avenue • ORegon 9-8755



The better product fragrances of today are the result of extensive research . . .

- Basic research into the sources of natural fragrance.
- Finding new aromatic materials.
- The development of better processing methods.
- The study of the psychology of scent.
- An understanding of trends and preferences in perfumes.

With this sound background of broad research in many areas, van Ameringen-Haebler can better serve your fragrance needs.

FACILITIES TO SERVE THROUGHOUT THE WORLD

ARGENTINA, AUSTRIA, BELGIUM, BRAZIL, CANADA, ENGLAND, FRANCE, GERMANY, HOLLAND, INDONESIA, ITALY, NORWAY, SOUTH AFRICA, SWEDEN, SWITZERLAND

Alva FLAVORS

for basic good taste in pharmaceuticals and foods.

IFF van Ameringen-Haebler division
INTERNATIONAL FLAVORS & FRAGRANCES INC.
521 West 57th St. • New York 19, N. Y.

Leading Creators and Manufacturers in the World of Fragrance

GSA Readies Disposal Of Crude Quartz Crystal

General Services Administration has announced plans to dispose of two types of quartz crystals from the national stockpile.

Separate disposal plans for 100,000 pounds of crude crystals and over 6 million pieces of partially processed crystals already have been sent to Congress and the six month waiting period required by law in stockpile disposals has begun. GSA plans to offer the partially processed crystals and a part of the crude crystals simultaneously soon after this waiting period expires.

The 100,000 pounds of crude crystals will be offered in a series of sales, the first to include from 25,000 to 40,000 pounds. Subsequent sales will be conducted on the basis of the results achieved with the first. Although these crystals are below present stockpile standards, they are considered suitable for a number of commercial uses, GSA says. Most of them range in weight from 200 to 700 grams, with some even higher.

Last fall GSA sold almost 1.5 million pieces of partially processed crystals. The six million pieces soon to be offered represent the stockpile balance of this type of crystal.

Tenn. Gas Establishes

—*Continued from page 5*

as yet disclosing how much it will make. Acetylene will be one of the principal feedstocks.

If ammonia is added, feedstocks would by hydrogen, obtained from the acetylene plant's off-gas, and nitrogen, from a plant whose principal product will be more than 700 tons of oxygen per day for use in the acetylene plant.

Tennessee Gas and Cary Chemicals, Inc., East Brunswick, N. J., have entered into long-term production and marketing agreements. Much of the vinyl chloride monomer will be shipped to Cary, a manufacturer and marketer of polyvinyl chloride-based plastics and related materials, for further processing into finished products for industrial and home application.

Mr. King has general supervision of petrochemical interests at Tennessee Gas He is a director of Petro-Tex Chemical Corporation, Houston, which is 50 percent owned by Tennessee Gas, and of Cary Chemicals, in which the parent firm has a substantial investment.

Mr. Padgitt was connected with the Ethyl Corporation in Baton Rouge, La., for nineteen years, the last eight as manager of vinyl chloride operations. He joined Tennessee Gas last year.

Syndet Sales Reach Peak

—*Continued from page 5*

pounds and $319,211,000, compared with 1959 sales of 1,066,440,000 pounds and $319,220,000.

Scouring cleanser sales totalled 374,933,000 pounds valued at $50,904,000, up from 1959 sales of 367,023,000 pounds valued at $50,811,000. This group was not included in the soap and synthetic detergent sales given above.

AROMATICS BY VERONA®
for RELIABILITY QUALITY and SERVICE
VERONA AROMATICS
26 VERONA AVENUE • NEWARK 4, NEW JERSEY

MUSTARD FLOUR
ALL GRADES FOR FOOD, AND MEDICINAL USE
Special for Mayonnaise
Old Dutch Mustard Co., Inc.
Manufacturers
80 Metropolitan Ave., Brooklyn 11, N. Y.
Phone: EVergreen 7-9156

for rare and difficult-to-achieve floral effects

Specify Givaudan's
INDOLE PURE

For those delicate yet lasting floral effects that are usually hard to achieve, Givaudan offers Indole Pure, a product of outstanding olfactory and chemical purity —free of coal-tar impurities and by-odors.

As a primary producer of this important aromatic, Givaudan has unique knowledge and skill in its development and use, and has taken the utmost care to make Indole Pure the finest available. It is especially adaptable in perfumes of the jasmin, gardenia, honeysuckle, lilac, lotus and orchid types.

Our staff will be happy to make recommendations for the use of Indole Pure in your compositions. A technical grade is also available for use in organic synthesis.

GIVAUDAN
GIVAUDAN-DELAWANNA, INC.
321 West 44th Street, New York 36, N.Y.
LEADERS IN AROMATIC CHEMICAL RESEARCH

SUNAROME CONCENTRATE W.M.O.
(2-Ethyl Hexyl Salicylate)
ESSENTIAL OILS
PERFUME BASES
AROMATIC CHEMICALS
FLAVORS &
FLAVOR MATERIALS
FELTON CHEMICAL COMPANY, INC
599 JOHNSON AVENUE, BROOKLYN 37, N.Y.
FELTON
Write for Samples

FLAVORS PF&W SCENTS
POLAK'S FRUTAL WORKS INC. MIDDLETOWN, N.Y.

GULF
TOLUENE
Highest quality and uniformity.
Write or phone.
PETROCHEMICALS DEPARTMENT SALES OFFICE, GULF OIL CORPORATION
360 Lexington Avenue, New York 17, N.Y. • Quality Petrochemicals to Begin With

Petroleum Derivatives

Segments of the market reflect current economic slack while other areas appear unaffected and actually manage to show increases in activity. Auto production downturn is cutting deeply into BTX demand for solvent application although chemical production use of the aromatics continues to soar. In the aliphatics steady business is reported in mineral spirits, hexane and heptane. Paraffin wax demand for refined and crude scale is well ahead of last year although the threat of polyethylene resins is becoming more a reality than a spectre.

Consumption and exports of crude oil in March will be below that of February, according to Bureau of Mines.

In its monthly market demand forecast the Bureau estimates March demand will average 7,010,000 bbls. daily, as compared with an average of 7,250,000 bbls. in February.

Forecast includes estimates of a total gasoline demand of 4,005,000 bbls. daily, a gasoline yield of 44.7 percent, and total crude runs of 7,950,000 bbls. daily. Expected gasoline demand is a two percent increase over March 1960 demand of 3,928,000 bbls. daily.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Feb. 26, 1960
103.74	103.74	103.74	103.64

For Current Prices See Page 11

Aromatic Solvents

Benzene — Further expansion in benzene has been announced in the past fortnight.

Detailed in OPD (2/20/61) were plans of a refiner to build a 12 million gallon capacity "Udex" plant in Kentucky.

This unit together with a "Hydeal" setup at the same location will provide approximately 15 million gallons of benzene annually.

Proposed benzene expansions and plants already building total 345 million gallons capacity. Most expansion figures to be on stream by the end of next year.

This is a startling figure when it is considered that total production for all of 1960 is placed at 450 million gallons.

Total capacity from all sources expected by the end of next year will be 1,055,000,000 gallons if all proposed plants come on stream at currently rated volume.

Trade sources are divided on the wisdom of such wide increases in supply.

Some observers declare that though benzene is currently short there are no foreseeable demand requirements that would call for a billion gallons potential.

The bears therefore predict a weakening of price at the worst, or at the best operation of plants at far less than stated capacity figures.

Bullish opinion has it that by the time supply from the projected plants comes on stream the demand will be there to meet it.

Only this month a veteran chemical man estimated styrene demand would grow at a rate of five percent a year. Such an increase would mean a growth of 85 million pounds of styrene the first year alone.

Aliphatic Solvents

Hexane — One supplier reports that sales are moving into normal channels in accustomed volume.

Added business seems a little difficult to come by, however. Hexane for extraction is down as crush activity is currently slack.

Other uses of hexane, such as in production of polyethylene and resins, are holding up well.

Prices are unchanged.

Mineral Spirits—Paint industry reported a record sales volume of $1.8 billion in 1960. Volume was below the $2 billion estimated by the industry at the outset of the year, however.

Much of this gain was in the acrylic pa nts employed in the auto industry. Alkyds held up well, too, as producers of mineral spirits testify.

Current spirits activity is well sustained with odorless on the upgrade as indoor house painting gains seasonally. Regular spirits are also moving well on the basis of comparative lower price.

Crude Oil Stocks

Domestic and foreign crude petroleum stocks at the close of the week ended Feb. 11 were 990,000 bbls. lower than at the end of the preceding week.

Week ended Feb. 11—232,231,000 bbls.

Preceding week—233,221,000 bbls.

This decrease comprises a decrease of 1,529,000 bbls. in stock of domestic crude and an increase of 539,000 bbls. of foreign crude.

(Source: Bureau of Mines)

LPG's

Production of lpg's declined to 359,766,000 gallons in the last two weeks of January after registering 367,976,000 gallons in the period January 1-15. Output in the last two weeks of January in 1960 was 392,890,000 gallons.

Losses were fairly general across the board with butane showing the widest drop amounting to 13.3 million gallons. Advances were scored by iso-butane, 8.8 million gallons, and butane-propane mix, 7.4 million gallons.

Inventory plummeted to 740,967,000 gallons on January 31, as compared with 875,122,000 gallons on January 15. Propane stocks were hardest hit as inventory decreased 111.4 million gallons from January 15 to an end of the month total of 481,383,000 gallons. Butane stocks dropped 36.3 million gallons to January 31 figure of 165,318,000 gallons.

Iso-butane stocks increased in the two week period some 6.8 million gallons to 46,208,000 gallons.

Waxes

Introduction of high-density polyethylene resins have wax makers casting serious doubts about the future of wax-coated milk cartons and similar end use products.

Although paraffin wax demand is currently reported above last year's demand, it is thought by numerous trade observers that plastics will by and large take over the markets traditionally held by paraffin waxes.

Development of new lines of resins by incorporation of long-chain molecules into linear polyethylene would appear to have solved some of the problems heretofore encountered in attempts to make liquid containers, one of which has been the problem of expansion or "give."

Most trade people agree that obsolesence of wax coated containers, if and when it comes about, will be a gradual process allowing producers time to seek out and develop other markets.

One such market, which in the opinion of at least one producer may far outstrip milk carton volume, is the corrugated wax-coated carton. Developed with the thought in mind of doing away with wooden, wire bound crates the corrugated boxes can be employed to ship vegetables, poultry, fish and almost any product in the consumer line.

Obvious advantage is a great saving in freight costs as the corrugated box weighs far less than its wooden counterpart.

Some of the questions asked about the corrugated box are: How waterproof is it? How durable is it when compared to wooden boxes?

These questions were answered quite effectively recently when a boat constructed of corrugated wax-coated material was sailed to Florida via the Inland Waterway. Boat and occupants arrived intact and dry.

Prospects are therefore good that the corrugated box with its lighter weight, ease of handling and durability will boom wax business far above any losses suffered in the introduction of plastic milk cartons.

Miscellaneous

Crude output and runs to stills increased in the week ended February 10 according to reports received by American Petroleum Institute.

Daily average crude production, including lease condensate, was 7,174,000 bbls. during the week ended February 10, an increase of 37,000 bbls, from the preceding week.

Trade Name Chemicals

PVA's Paper Market May Grow Because of Borax Pre-Treatment

Borax pre-treatment and low-solids solutions may be clearing the way to increased use of polyvinyl alcohol in the paper industry. PVA, long accepted in the paper field as a size and clear coating for specific applications, has been uneconomical in many cases because too much of it penetrates paper stock. This means excessive amounts of the alcohol have to be used in order to build up a layer of polymer on the surface of the sheet. Consequently, despite a number of highly desirable paper coating properties in a single material, use of PVA in paper has been limited by its relatively high price.

But paper producers have been learning to get more mileage out of higher-priced polyvinyl alcohol by use of low-solids solutions and control of penetration of the solution into paper and paperboard.

In the latter area, E. I. duPont de Nemours & Co. picked last week's meeting of the Technical Association of the Pulp & Paper Industry in New York to report on mill experience with the "Elvasize" process.

The method employs a pre-treatment of borax solution, followed by polyvinyl alcohol size. DuPont reports the process is being used commercially in eight mills and great interest has been shown at other mills where trials have been run.

Although the principal application of the "Elvasize" process has been sizing of paperboard for high gloss printing, many other applications are under study.

These include improving grease, oil and solvent resistance on paperboard; as a general holdout size for pigments and clear coatings; as a gas barrier coating, and for improving strength and abrasion resistance.

Use of 'Elvasize' Process in Breadwrap

Other studies currently under way include the utilization of the "Elvasize" process for improved wax holdout on breadwrap and improving the erasibility and strength of bond writing papers.

In tests involving patent coated newsboard, the company reports savings of about 50 percent were realized through use of the polyvinyl alcohol/borax treatment.

The trials involved comparison of newsboard coated with 5 percent borax and 3 percent "Elvanol" 72-60 (duPont polyvinyl alcohol) and the regular system consisting of starch-alginate size.

Other mills producing paperboard with surface sizing requirements recorded costs as low as 50c. to 60c. per ton using a 3 percent borax solution and "Elvanol" at concentrations ranging from 1 percent to 1.5 percent solids, the company says.

Some mills have been successful with a size consisting of 6-8 parts starch and one part polyvinyl alcohol at a total concentration of 3-4 percent solids.

For sizing alkaline paper and paperboard, a one-stage version of the "Elvasize" process has been developed. In this system the polyvinyl alcohol size solution is modified with boric acid.

When the modified size solution is applied to the alkaline sheet, the boric acid is converted to the borate form which then reacts with the polyvinyl alcohol.

The mechanism involving reaction of borax with polyvinyl alcohol to form a stable gel structure is fairly well established. A procedure in the acoustical tile field for some years has been to pre-treat with a borax solution before applying a PVA-based paint.

PVA Use in Paper Industry

However, in the paper industry where PVA usage has been limited by price, observers feel cost-cutting developments such as the "Elvasize" process could be the basis for a substantial increase in consumption.

Current PVA use in paper sizing is estimated at 3-3.5 million pounds—small compared to the 10-12 million pounds used for adhesives. Nonetheless, industry sources feel the outlet has big potential.

As papermakers upgrade their products, a greater volume of scuff-resistant and grease-resistant coatings will be required. In the year ahead, it's expected there will be a further increase in use of PVA as a pigment binder in decorative paper products.

In addition, some paper mills buy polyvinyl alcohol to formulate their own adhesives for laminating board. Thus, whether PVA ends up as a size or as an adhesive, more of the 25 million pounds consumed annually is going to the paper industry than is immediately apparent.

Among the newest producers of polyvinyl alcohol is Air Reduction Chemical Division, which came into the market about a year ago with a 20-22-million-pound plant at Calvert City, Ky.

The company currently offers two products for the paper industry. "Vinol 125" and "Vinol 260" are priced at 57 cents a pound at a viscosity of 30 and 60 cps., respectively.

Among new developments, the company cites the good initial acceptance of water-soluble polyvinyl alcohol film packs for household detergents.

Estimates indicate this market could go to 15 million pounds within five years. Will all of this film be based on polyvinyl alcohol? It's unlikely, sources report, but PVA has a running start.

Shawinigan Offers Dozen PVA Grades

Shawinigan Resins Corporation offers a dozen grades of polyvinyl alcohol. For the paper industry, "Gelvatol 1-90" is recommended for calender sizing.

The company points out that for most paper coating and sizing operations the completely hydrolyzed grades of polyvinyl alcohol provide better water resistance and less tendency to block on drying cylinders and calendering rolls than partially hydrolyzed grades.

For especially high wet strength, Shawinigan suggests "Gelvatol" be used in combination with a water-soluble formaldehyde derivative such as dimethylol urea.

Grease resistant coatings are obtained by adding "Gelvatol" to a starch or polyvinyl acetate emulsion coating.

Heyden Newport Offers New Series of Paper Sizes

Drawing a bead on the 10-million-ton unbleached board and insulating paper market, Heyden Newport Chemical Corporation is now up with a new series of paper sizes ("Newport-200 Series").

Unveiled at the annual meeting of the Technical Association of the Pulp & Paper Industry in New York last week, the new materials are basically rosin sizes and are intended to lower the cost of obtaining water resistance in unbleached grades of paper and board.

A. G. Dreis, paper chemicals product sales manager, points out that total paper and paperboard production runs about 34 million tons annually and that unbleached types make up about 30 percent of this total.

The new dark sizes, developed at Heyden Newport's laboratories in Pensacola, Fla., will be priced at $4 a hundred pounds (70 percent solids).

News Briefs

FUNGICIDES: Metalsalts Corporation, Hawthorne, N.J., reports additional information on fungicides (OPD, 1/30/61). The company markets "Metasol 57" (phenylmercuric propionate, 57 percent Hg) for use in water-based or oleoresinous paint systems.

In addition, the product is being used as the principal germicidal component of a new line of laundry softeners sold to major hospitals across the country.

Other products offered by Metalsalts include "Metasol P" di(phenylmercuric) ammonium propionate, for the paper industry, in which the phenylmercury is bound in a quaternary-type nitrogen complex.

For control of human fungus Metalsalts offers "B.O.S." (the salicylic acid ester or benzoyl oxyquinoline) for topical application.

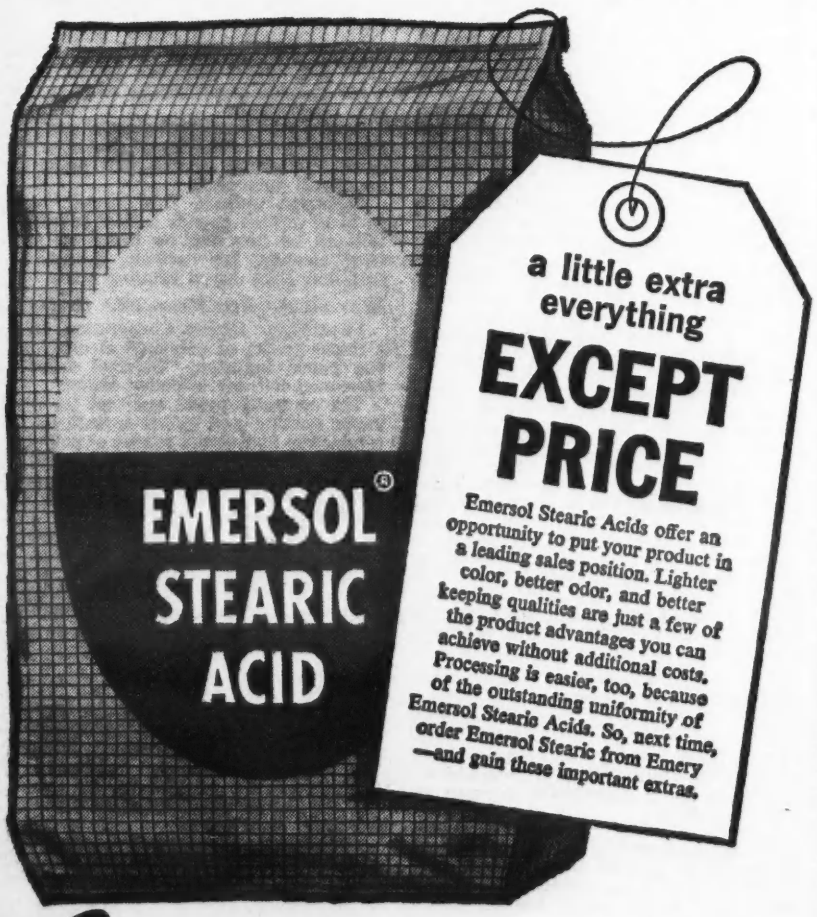
FATTY ACIDS

STEARIC ACID • OLEIC ACID
HYDROGENATED FATTY ACIDS
TALLOW FATTY ACIDS
HYDROGENATED GLYCERIDES
HYDROGENATED CASTOR OIL
12 HYDROXY STEARIC ACID

HARCHEM
CENTURY BRAND
HARCHEM DIVISION
WALLACE & TIERNAN, INC.
25 MAIN STREET, BELLEVILLE 9, NEW JERSEY
IN CANADA: HARCHEM LIMITED, TORONTO

WARWICK WAXES
SHAMROCK CHEMICALS CORPORATION
420 Lexington Ave., N.Y. 17, N.Y. • ORegon 9-2550

AMERICAN MONTAN WAX
ALPCO
CONSIDER THAT
ALPCO WAX . . .
✓ is guaranteed to be uniform
✓ is free from import restrictions
✓ is price stabilized
✓ is stocked at convenient points
✓ is offered with technical advice
REFINED GRADES
(decolorized)
NOW
AVAILABLE
Produced in California by:
AMERICAN LIGNITE PRODUCTS COMPANY, INC.
IONE, CALIFORNIA
Sales Offices: 110 E. 42nd St.—RM 1211—New York City 17 • Ione, Calif.


EMERSOL®
STEARIC
ACID
a little extra
everything
EXCEPT
PRICE
Emersol Stearic Acids offer an opportunity to put your product in a leading sales position. Lighter color, better odor, and better keeping qualities are just a few of the product advantages you can achieve without additional costs. Processing is easier, too, because of the outstanding uniformity of Emersol Stearic Acids. So, next time, order Emersol Stearic from Emery —and gain these important extras.

Emery
FATTY ACID DIVISION
Emery Industries, Inc., Dept. 0, Carew Tower, Cincinnati 2, Ohio
New York • Philadelphia • Boston • Chicago • Cleveland • Vopcolene Division, Los Angeles • Ecclestone Chemical Co., Detroit • Emery Industries (Canada) Ltd., London, Ontario • Export Division, Cincinnati

Oils, Fats and Waxes

Feature of the oils and fats market last week was the sharp advance of soybeans futures which was reflected in cash oils. Soybean and cottonseed oils were fractionally higher, though consuming inquiry was reported quiet. Peanut oil was firmer advancing ¼ cent, while corn was easier off ¼ cent. Crude coconut oil was inactive and unchanged. Copra was slightly lower. Olive oil was unchanged and quiet. Lard market was stronger and cash lard was lifted sharply.

Tallow and greases were scarcer and higher because of the renderers' strike which resulted in scanty offerings at higher prices. Soapers were reported staying on the sidelines with specialty buyers also showing little interest.

Scarcity of rapeseed oil and improved consumer inquiry further stiffened the market. Sales took place at least ½ cent higher. Palm oil was also boosted ¾ cent because of the higher cost of replacements from primary sources. Steadier tone prevailed in oiticica oil due to increased consumer interest. Crude menhaden oil was unchanged and steady.

Soybean meal was firmer closing $1 per ton higher. Linseed meal was up 50 cents per ton.

The Department of Agriculture announced that CCC has purchased 8.5 million pounds of vegetable oil shortening from 16.70 to 19.13 cents per pound, in 3 and 50 pound containers, f.o.b. plants depending upon quantity and 4 million pounds of cottonseed salad oil from 17.38 to 19.56 cents per pound, in 1 and 5 gallon tins, same basis for relief purposes outside of the United States.

Margarine consumption in 1960 again set a record totaling 1,695.2 million pounds, 5 percent higher than the previous year, representing civilian consumption of 9.2 pounds per person and utilized about 1,366.1 million pounds of fats and oils, including 1,104.6 million pounds of refined soybean oil and 135.5 million pounds of cottonseed oil.

Price Trends

Advanced

Cottonseed oil, crude, ¾c. per lb.
Refd., ⅞c. per lb.
Lard, cash, 13/20c. per lb.
Linseed meal, $1 per ton.
Palm oil, ¾c. per lb.
Rapeseed oil, ¾c. per lb.
Soybean meal, $2.50 per ton.
Soybean oil, crude, ½c. per lb.
Refd., ½c. per lb.

Reduced

Copra, $2.50 per ton.
Corn oil, crude, ¼c. per lb.
Refd., ¼c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Feb. 26, 1960
108.67	108.20	105.66	117.64

For Current Prices See Page 11

Vegetable Oils

Castor—Demand spotty. No. 1 Brazilian unchanged at 17½c. per pound, tankcars, New York, prompt delivery. Domestic grades were without change.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:

	Pounds	
	Castor Beans	Castor Oil
Last week	....	720,000
Previous week	....	650,000
Corresponding week, 1960	....	1,628,000
Total this year	....	13,194,000
Corresponding period, 1960	799,950	15,124,000

Coconut—Crude was quiet and steady. Offers were quoted at 12⅛c. per pound, tankcars, f.o.b. Pacific coast, for February and 12¼c., March. The New York market was unchanged at 13½c., tankcars, prompt delivery.

Corn—Crude was easier and sold at 15⅞c. per pound, tankcars, f.o.b. mills, prompt shipment. Refined oil dropped to 19.60c., tankcars, New York delivery.

Cottonseed—Futures continued to advance with soybean and oil futures on the New York Produce Exchange last week. Trading was active and speculative, the market again reaching new season highs for all positions. Consuming interest in cash oil, however, was slow. Refined salad was lifted to 16⅜c. per pound, tankcars, New York for prompt delivery. Crude was stronger, up ⅜c. per pound. Tankcars were quoted at 12⅜c. per pound, f.o.b. mills, Valley; 12½c. to 12¾c., in the southeast; 12½c., Lubbock and 12⅝c., Waco.

The purchase of 7,000 tons of cottonseed oil by the United Arab Republic served to strengthen the market last week.

Cottonseed crushed in January was indicated at 666,900 tons compared with 612,900 tons (revised) in December and 632,700 tons, January last year. Total for six months (August through January) was 3,343,800 tons against 3,441,000 tons for the same period last year.

Olive—Trading was quiet for spot and forward delivery. Spanish oil was quoted at $52 to $53 per 100 kilos, drums, f.o.b. ports, prompt shipment, and Tunisian, $54.50 c. and f. New York, prompt. Oil on spot ranged from $2.35 to $2.40 per gallon, drums, exwarehouse, as to quantity.

Palm—Prices were higher—up ¾c. because of increased cost of replacements from primary sources. Drums were lifted to 14¾c. to 15¾c. per pound, spot, as to quantity and 12c. for tankcars, same basis.

Peanut—Crude was firmer and held at 14c. per pound, tankcars, f.o.b. mills, prompt shipment. Refined oil was raised to 17¼c., tankcars, New York basis.

Rapeseed—Market was stronger and further advances took place owing to increased demand and limited supplies. Prices were up ¾c. to 16¼c. per pound, tankcars, New York, March-April and 16c., May-forward. Drums were raised to 18c. to 18½c. per pound, spot, depending upon quantity.

Soybean—Crude was stronger and sharply higher with futures. Tankcars were boosted to 12¾c. per pound, Decatur, unrestricted, prompt shipment. Refined salad was higher at 15c., tankcars, New York basis.

Reports from Spain stated that the government will reduce imports of soybean oil to about 50,000 tons from previous total of 120,000 tons because of the high cost of oil.

Soybeans crushed in January reached a record of 38,327,000 bushels compared with 37,690,000 bushels in December and 33,893,000 bushels, January last year. The four month total (October through January) was 148,320,000 bushels against 139,076,000 bushels for the same period last year.

Tung—Scarcity of supplies was the prime factor in keeping market strong. Trading was reported slow. Tankcars were nominal at 29½c. per pound, New York, prompt delivery. Offers of domestic oil continued nil and market was also nominal around 29c. to 29½c., tankcars, f.o.b. mills.

CCC last week sold 180,000 pounds of tung oil at 28c. to 28½c. per pound, bulk, f.o.b. Marrero, La., for unrestricted use which was about ½c. below sales of the week previous. Bids were received for 500,000 pounds.

Cottonseed Oil Futures

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Friday, February 24, follow:

	Sales	High	Low	Close
		Cents per Pound		
March	434	14.83	14.17	14.32@14.83
May	1,021	14.97	14.29	14.96S
July	826	15.06	14.37	15.06S
Sept.	173	14.80	14.13	14.77S
Oct.	62	14.34	13.75	14.28S
Dec.	19	14.02	13.68	14.02S

Total sales and switches, 2,535 contracts.

Miscellaneous

Cocoa Butter—Market was unchanged and steady, ranging from 55c. to 60c. per pound, spot, according to quantity.

Copra — This market closed slightly lower at $164 per ton, c.i.f. Pacific coast, prompt shipment. Bids were $5 less.

Flaxseed—Trading was slow. Open bids advanced to $3.03 a bushel, basis Minneapolis, but most trades thereat. Lack of storage space hampered buying activity.

Fats and Greases

Greases—Strong tone prevailed, with quotations merely nominal. Offerings were nil owing to renderers strike. Choice white was nominal at 9⅝c. to 9¾c. per

Oils, Fats and Waxes

pound, tankcars delivered and yellow grease, 6⅛c. to 6¼c., same basis.

Lard—This market was sharply higher with other commodities. Cash lard was advanced to 13.65c. per pound, drums, Chicago.

Tallow—This market was stronger and upset by the renderers strike. Offers were nil and prices were entirely nominal, covering a wide range depending upon buyer and seller. Soapers were out of the market, while specialty buyers taking small lots for actual needs paid premiums. Bleachable fancy was nominal at 6⅞c. to 7⅛c. per pound, tankcars delivered; guaranteed fancy, 7⅜c. to 7½c.; prime, 6⅝c. to 6¾c.; special, 6⅜c. to 6⅝c. and No. 1, 6⅛c. to 6¼c., same basis. Export business was reported totaling 25,000 to 30,000 tons of tallow to Russia, chiefly lower grades for prompt and later shipment.

Cake and Meal

Linseed Meal—Stronger tone invaded this market, sparked more by increased jobber interest in deferred position than any aggressive demand from formula feed manufacturers. Withdrawals against old contracts were at a better rate. Prices advanced 50c. a ton. Extracted meal, 34 percent, was quoted $56 a ton, bulk, in carlots, f.o.b., Minneapolis, and old process expeller at $61.50 for February-March; $62.50, April-July.

Soybean Meal—Price movements were irregular in this market, unrestricted meal sustaining an advance of $1 a ton, percent, was quoted $56.50 a ton, bulk, in meal sustaining an advance of $2.50 a ton. Formula feed manufacturers held purchases to nearby requirements. Meal, 44 percent, was $65 a ton, unrestricted, bulk, Decatur, for prompt delivery.

Waxes, Vegetables

Consumer interest continued fairly active resulting in moderate trading for actual requirements. Carnauba wax remained steady at unchanged prices. No. 3 Ceara crude was held at 64c. to 65c. per pound, spot as to quantity and Parnahyba 2c. more. Yellows were steady also with Parnahyba No. 1 yellow in scarce supply. Refined beeswax remained firm and unchanged, reflecting the scarcity and strength of crude. Other vegetable waxes were in fair demand and maintained at former prices.

Bottle and Jar Prices Are Due for an Increase

Owens-Illinois Glass Company, Toledo, Ohio, is raising its glass container prices, the first general increase in its bottle and jar prices made by the company since 1957.

None of the increases will apply to shipments made prior to April 1. The price increases will vary, following an exhaustive study of existing cost-price relationships, the company said. Customs will be notified of changes as soon as possible.

Oil Trades Meeting Set

Oil Trades Association of New York will hold its annual meeting and election of officers Tuesday, March 14, at the Waldorf-Astoria hotel, New York. Table reservations are required by March 9. Tickets are $13.50 for members and $19 for guests.

Chemical Firms' Bids

—Continued from page 3

ufacturers to engage in their price fixing conspiracy and whether similar plans exist in other basic industries.

He wants to know how the companies got together and how their conspiracy fits the companies published policies to obey the antitrust laws.

Among the aims of the inquiry, he added, will be determining whether antitrust penalties are stiff enough to act as deterrents to price-fixing conspiracies. The maximum sentence now is one year in jail and a $50,000 fine for each count of a criminal indictment.

Repercussions from the guilty pleas of the electrical company officials also echoed on the floors of both the senate and house last week. In the senate, Sen. William Proxmire of Wisconsin introduced a bill to permit the courts to deny any company official, found to have violated the antitrust law, the right to continue receiving pay from his company or serving in an official capacity with any related company for a period of one year.

New Bill Introduced

Rep. Wright Patman of Texas, at the same time, introduced a bill in the house to require all federal bidding—not just those instances where the head of the agency thinks the antitrust laws may have been violated. Similarly, state agencies could also file such notifications with the Attorney General.

A consolidated report of all of these instances of identical bidding would be reported to the President and to the senate and house quarterly, to be printed and made available to the public.

Mr. Patman supported his bill with an article by Prof. Vernon A. Mund, published in the *Journal of Political Economy* for April 1960, which went into the matter of identical bidding in great detail and concluded that the antitrust agencies were creating a considerable area of antitrust law exemption by their failure to prosecute identical bidding except where there is proof of collusion.

The Mund article cited a large number of examples of identical bidding in such chemical areas as rock salt, soil sterilant, yeast, calcium chloride, sodium fluoride, graphite, tetracycline, liquid chlorie, carbon dioxide, zinc oxide, and polio vaccine. The examples were occurrences between 1954 and 1958.

Chemical Dividends Fall

—Continued from page 5

ment and automobiles were the only manufacturing industries to report declines from a year ago. All others reported increases, except oil refining which held steady at $4.4 million, ranging from $200,000 for the paper and printing industry to $2.8 million for the combined food, beverage and tobacco industry.

For the manufacturing group as a whole, cash dividends in January amounted to $298.7 million, compared with $293.3 million in January 1960.

Manufacturers of
"CORONA" LUXURY BRAND LANOLIN ANHYDROUS USP
"NOVOL" COSMETIC OLEYL ALCOHOL SUPERFINE COSMETIC LANOLIN USP
"HARTOLAN" WOOL WAX ALCOHOLS BP
POLAWAX SELF-EMULSIFYING WAX
"FLUILAN" LIQUID LANOLIN
"PROTANAL" Sodium ALGINATE
"CRODACOL" CETYL, STEARYL OLEYL ALCOHOLS
Croda INC.
15 E. 26 St. • New York 10, N.Y.
Tel. MUrray Hill 3-3089
Cables: CRODAFAS, NEW YORK
Subsidiary: Hummel Lanolin Corp. 185 Foundry St. Newark 5 N. J.
NEW YORK LONDON MILAN

The SPECIAL WAX you're looking for
If your problem calls for hardness, solvent retention, chemical inertness, solubility in hot solvents, compatability with dyes and other waxes, emulsifiability, water insolubility, ease of saponification, electrical insulating capacity and low cost—then you need
RIEBECK® ROMONTA® MONTAN WAX
Also available are Bonauba & Carbacote Technical Carnaubas, Candelilla, Bayberry, Japan, Beeswax, Spermaceti, and "custom blended" Waxes.
Write today for FREE sample and specifications.
Strohmeyer & Arpe Co.
139 Franklin Street, New York 13, N.Y.

WAXES
M. ARGÜESO & CO. INC.
441 Waverly Ave., Mamaroneck, N.Y.
Owens 8-8500 • Cable: MARGUESO • Established 1908
Importers and Refiners
CARNAUBA • OURICURY
CANDELILLA • BEESWAX
Crude • Refined • Bleached • Flaked • Powdered
MAMARONECK REFINED BRAND
Vegetable Waxes
CERESINS — OZOKERITES
Palm Waxes — Resin Blends
Compounds and blends made to your specifications
CERITA WAXES

For Domestic and Export
COTTONSEED MEAL AND CAKE
PEANUT MEAL - SOYABEAN MEAL
Export Codes: ABC 5th, BENTLEY'S JUNIOR PEERLESS
Cable Address: BRODE
Phones: L. D. 271 — Local 38-2544
Teletype No. ME-260
THE BRODE CORPORATION
P. O. Box 700 1012 Falls Building
MEMPHIS, TENNESSEE

QUAKER STATE QUALITY WAXES
A COMPLETE LINE FOR ALL INDUSTRIAL USES
QUAKER STATE OIL REFINING CORP.
WAX SPECIALTIES DEPARTMENT
OIL CITY PENNSYLVANIA

PARAFFIN WAXES
MICROCRYSTALLINE WAXES
(exporters—BARECO-PETROLITE WAXES)
Industrial Raw Materials Corp.
575 Madison Avenue
New York 22, N. Y.
Tel: MUrray Hill 8-8080
Plant: Houston, Texas

"What a whale of a difference Sperm Oil makes"
SELF EMULSIFIABLE SPERM OIL
WERNER G. SMITH INC
1730 TRAIN AVENUE
CLEVELAND 13, OHIO

ULTRAMARINE BLUES

- Prompt deliveries through nation-wide warehouses
- Complete range of types
- Experienced technical service

The Big Name in Quality Ultramarine Blues (formerly sold by American Cyanamid Company)

UNITED ULTRAMARINE & CHEMICAL COMPANY, INC.
142 Broadway, New York 6, N.Y.

IMPORTED & DOMESTIC
CASEIN

- Lactic and Hydrochloric acid type.
- We can "tailor-make" a casein to fit your needs.
- Special price consideration given to small users.
- We believe we can save you money, with our very reasonable prices.

Write us today for additional information

THE ERIE CASEIN DRYERS
100 MAIN ST. ERIE, ILLINOIS

OPD REPRINTS
35¢ A COPY

Iron Oxides
DOP and DIOP
Titanium Pigment

OIL, PAINT AND DRUG REPORTER
Reprint Department
30 Church Street, New York 7, N. Y.

CHAS. L. READ & CO., INC.
30 JOURNAL SQUARE, JERSEY CITY 6, N. J.
Phone: NEW JERSEY OL. 6-2626 NEW YORK WO. 4-1131
THE GREATEST NAME IN TURPENTINE
GUM SPIRITS • STEAM DISTILLED • SULPHATE

SYNPRO STEARATES

- ZINC STEARATE USP, COSMETIC, TECH.
- ALUMINUM STEARATE (All Types)
- CALCIUM STEARATE
- BARIUM STEARATE
- MAGNESIUM STEARATE USP, TGA Specs.
- CADMIUM STEARATE and others

30,000 lb. lots available for single shipments . . Also producers of aurates, palmitates, and others
SYNPRON stabilizers for Vinyl Compounds
SYNTHETIC PRODUCTS COMPANY
Since 1917
1636 Wayside Road, Cleveland 12, Ohio • Phone: KE 1-6010

TRY
PLASTOLEIN®
PLASTICIZERS

Emery doesn't make a plasticizer for every use, but the low temperature, polymeric and epoxy types that they do produce are highly regarded and widely used by quality vinyl plastics manufacturers. The big reason for Plastolein popularity: they produce a better product, particularly when special characteristics are important.

That's why difficult performance problems are welcome at Emery. "Tough ones" offer the best opportunity to prove the special merits of Plastolein plasticizers.

Write Dept. O for 32-page Emery-facts titled "Plastolein Plasticizers."

Organic Chemical Sales Dept.
EMERY INDUSTRIES, INC.
Carew Tower, Cincinnati 2, Ohio
New York • Philadelphia • Boston • Chicago • Cleveland

West Coast Vopcolene Division
5568 E. 61st Street, Los Angeles 22, California
Warehouse stocks also in Baltimore and Buffalo
In Canada: Emery Industries (Canada) Ltd., 839 Nelson Street, Hamilton, Ontario • Export: Carew Tower, Cincinnati 2, Ohio

Coatings Materials

Industrial paints are scheduled for a three percent increase in listing, according to the announcement made last week by two leading coatings manufacturers. The increase, the first since 1957, follows the recent three percent price boost on trade name paints that went into effect last December. The price boost is reported to be the result of rising costs in raw materials, packaging and labor.

A third company, reacting to the proposed increase, is standing pat on the grounds that industrial paints are usually sold in large volume gallonages and terms are therefore negotiated with the buyer in each case. The company believes this obviates any necessity for a blanket announcement at this time.

In other areas of the coatings market, a somewhat lagging market for asbestos may get a shot in the arm from a newly-discovered end-use. Asbestos-reinforced plastics offer a potentially large market for chysotile fiber. Recent research, according to the Society of Plastics Engineers, reveals that the fiber is one of the strongest materials known, as well as one of the finest fibers ever measured. Recent high-strength, high temperature applications of asbestos-reinforced plastics include space rocket cones, rocket exhaust nozzles, insulation of high temperature air ducts on jets and, in experimental forms, jet turbine engine blades.

Spot coatings markets continued on the quite side, with some improvement anticipated in the shellac market. Casein seems to be firmly mired in the hole it tumbled into a few months ago. Listings are unchanged on Argentine, Polish or New Zealand casein.

In the phthalate ester market, supplies are reported to be improving with the rising demand. The outlook for the next few months is for a gradual improvement in the supply/demand ester equation, followed by some leveling off.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Feb. 26, 1960
104.55	104.56	104.56	103.03

For Current Prices See Page 11

Prime Pigments

Aluminum Paste and Powder—Routine conditions that have been a part of the prime pigments over the past few weeks continue to be the dominant feature for the week. Listings for aluminum paste and powder are reported to be holding in the range of 71c. per pound for paste, extra-fine, and $1.13 per pound for powder, extra-fine.

Chrome Colors—Output of chrome colors during December are reported to have dropped from the levels established in the same month of 1959. For December, 1960, the Census Bureau reports that chrome oxide green production was 262 short tons, compared to 375 for the previous month and 525 short tons for December, 1959.

Production of chrome yellow and orange (C.P.) in December of last year hit 1,558 short tons, up somewhat from the 1,422 short tons reported for the previous month but well below the 1,981 short tons reported for December, 1959.

Molybdate chrome orange production at 402 short tons in December was some 76 tons below the output for November and almost a third less than the 669 short tons reported for December 1959.

Stocks of chrome colors were only slightly changed during the month. Chrome oxide green went from 715 short tons to 710 short tons at the end of the month. Chrome yellow and orange stocks (held at producers plants) gained from 2,714 short tons to 2,910 short tons.

Titanium Dioxide—Demand from some of the traditional sources for titanium dioxide are reported to be off somewhat in recent weeks. However, trade sources report that some new uses have been developed that are faring well, and taking up some of the slack in demand that would normally provide larger stocks at producers' plants. Paper coatings and other paint sources are felt to be requiring less material in the past few months but dry storage battery manufacturers are taking up some of the slack in the reduced demand.

Census reports that December's output of pure and composite titanium dioxide was 35,157 short tons, down from the previous month's output of 36,814 short tons. For comparison purposes, December, 1959, saw 42,814 short tons produced.

Stocks of titanium dioxide were reported at 66,707 short tons held at producers' plants at the end of December, compared to 68,989 short tons on hand at the beginning of the month.

Lacquer Materials

Plasticizers—The market for the phthalate esters remains basically unchanged from the conditions existing over the past few weeks. While supplies of the phthalate esters are still snug, the chances for improvement are considered excellent. Sources also expect, that the business situation for the esters will likewise pace the general improvement in the supplies of the esters.

As to the long range picture, some in the trade feel that the phthalate supply/demand equation that has been sharply tipped in the direction of demand might reverse itself in the next 12 months, creating a mirror-image of the tight supplies; strong demand that has existed in the plasticizer market over the past 12 months.

The freeing in the sources of the esters is based on the cluster of stream target dates for petroleum sources of naphthalene later this year. Currently, the phthalate ester listings are reported to be firmly established at the recently advanced postings. Some in the trade believe that this firm undertone might give way later in the year under the weight of surplus material.

Natural Resins

Gums—Both copal and dammar gums are reported to be routine in regard to general business conditions. Supplies are adequate for all needs with listings for all grades of the Congo copals and dammar gums reported to be unchanged from the announced listings of a few weeks ago.

Shellac—While the shellac market is traditionally slow during the winter months, the recent bad weather that hit much of the country tied up shellac shipments even further. Trade sources look for some increase in business for industrial shellac in the next few months, pacing the expected improvement in sales of trade shellac. Supplies are considered to be more than ample; listings are reported to be unchanged.

Naval Stores

Gum terpentine production during January totaled 4,010 barrels of turpentine and 15,160 drums of rosin, according to reports from the Crop Reporting Board. Production for the first ten months of the crop year was 10 percent higher than that for the same period last season.

Wood turpentine output for the crop year to date is down 8 percent from a year earlier, while production of steam distilled rosin is up 2 percent and tall oil rosin up 13 percent.

Stocks of gum rosin on January 31, 1961 is reported at 69,680 drums and is down from the 12,450 drums reported for a month ago. This decrease was more than offset by an increase of 17,540 drums in wood rosin holdings. Gum turpentine stocks held at about the same level as on December 31, 1960 and wood rosin stocks were about 6,000 barrels larger.

USDA's weekly report on gum naval stores indicates that for the week ending Feb. 17, sales of rosin were mostly confined to bags, with most sales consisting of N and M and below. Overall sales were placed at 1,486 drums equivalent. Volume continued to light while prices remained steady.

The turpentine market is reported to be steady as overall sales were reported at 14,000 gallons. Tank car listings averaged 48c. per gallon. For the week CCC accepted bids of 47c. per gallon in storage for 35,453 gallons of turpentine for export which represented remaining CCC stocks.

BRILL FOR VALUES

CENTRIFUGES

2—Sharples C-20 and C-27 Super-D-Hydrator, 316 S.S.
1—Bird 18"x28", Solid Bowl, Continuous, 304 S.S.
2—Bird 24" x 38" Solid Bowl Continuous 304 SS.
1—Bird 32" x 50", Solid Bowl, Continuous, 316 S.S.
1—Bird 36" x 50" solid bowl continuous, 347 SS.
1—Bird 40" x 60" solid bowl continuous, 316 SS, UNUSED.
3—Sharples PY14, PN14 Super-D-Canters 316 S.S.
2—Fletcher 48" Suspended 316 S.S. Perforated Basket.
2—Sharples #16, 304 S.S., 3 HP motor.

REACTORS — EVAPS — CONDS — TANKS

1—150 gal. 304 S.S. jacketed agitated Reactor.
3—Pfaudler 200 gal. glass lined jacketed Kettles.
1—300 gal. Hastelloy B jacketed kettle.
1—650 gal. 304 S.S. Reactor with 100 sq. ft. Bayonet Heater.
1—550 sq. ft. Buflovak monel single effect Evaporator.
1—500 gal. S.S. Mixing Tank with nickel coils.
1—2,000 gal. horizontal 304 S.S. tank 5' x 12'.
1—2250 gal. 316 SS horizontal Tank, 6' x 9'6".
1—2,500 gal. vertical 304 SS Tank, 8' x 7'.
6—7500, 6000 and 2000 gal. Rubber Lined Tanks.
1—12,000 gal. horiz. steel Pressure Tank, 7'6"x36', 200 psi.
6—Stainless Heat Exchangers; 1220, 786, 536, 370, 315, 250 sq. ft.
1—24" dia. x 35', 304 S.S. Bubble Cap Column.

FILTERS

1—#5 Sweetland Filter 304 S.S. 120 sq. ft.
1—Oliver 6' dia. Horizontal Filter, 316 S.S.
1—Oliver 5' x 6' Steel Rotary Vacuum Precoat Filter.
1—U.S. 200 sq. ft. 304 S.S. Auto-Jet Filter.
1—Hercules 400 sq. ft. 304 SS pressure Filter.
1—Oliver 5'3"x8' Steel Rotary Vacuum, vaportite housing.
1—Feinc 5'x6' Stainless Steel Rotary Vacuum Filter.
1—Feinc 3' x 3' Stainless Steel Rotary Vacuum Filter.
2—#10 Sweetland Filters, 27 leaves, 4" centers, 250 sq. ft.
1—8200 gal. 321 SS vertical Tank, 10' x 14'.

DRYERS

1—Buflovak Vacuum Shelf with 20—60"x80" shelves.
2—Buflovak 42"x120", atmospheric double drum Dryers, complete.
1—Buflovak 32" x 90" Atmos. Twin Drum Dryer.
2—Devine 4'x9', single drum, atmospheric.
1—Buflovak 3'x10' Rotary Vacuum Dryer.
1—Baker Perkins 5'6"x6' Rotary Vacuum Dryer.
1—Buflovak 3' x 7'6" Rotary Vacuum Dryer 316 S.S.
6—Louisville Rotary Steam Tube 5'x25', 6'x30', 6'x50'.
2—Louisville 8'x50' Stainless Steel lined Rotary Dryers.
9—Rotary Dryers 34"x30', 4'x40', 6'x50', 6'x60', 7'x80', 8'x87'.
1—Traylor 30"x18' Stainless Steel Rotary Dryer.
2—Link Belt, 7'5"x25', 6'4"x24", S.S. Louvre Dryers.
2—Atmos. Tray Dryers, 16 shelves, 40"x24".
1—P&S 6' wide Apron Conveyor Dryer 48' long.

MIXERS

1—Farrel-Birmingham "Midget" Banbury Mixer.
2—Day Imperial 150 gal. jktd. double arm.
1—Baker Perkins 100 gal., jacketed, double arm, 30 HP.
1—Baker Perkins 50 gal. jacketed, double arm.
5—Day "Cincinnatus" double arm, 250 and 100 gal.
2—Steel jacketed Powder Mixers, 225 and 350 cu. ft.
1—Patterson 6' dia. Conical Blender 15 HP.
1—3' dia. Simpson Intensive Mixer.
1—45' dia. Lancaster Mixer, 7-1/2 HP motor.
1—Patterson Kelly 150 cu. ft. Twin Shell Blender.

MISCELLANEOUS

3—Kinney Vacuum Pumps, 750 cfm, 1 micron, 15 HP.
2—Hardinge 5' x 22" steel lined conical Ball Mills.
4—Mikro Pulverizers, #4TH, 1SH, 1SI and Bantam.
3—Abbe 2½' x 3' porcelain lined Pebble Mill XP motor.
1—Raymond 10" vert Mill, 10 HP.
1—No. 1 Ball & Jewell Rotary Cutter.
1—#18 Cumberland Rotary Cutter.
3—Swenson Walker Continuous Crystallizers, 24" x 30' sections.
2—#842 Rotex Sifters 60" x 84" double deck.
1—#24 Rotex Sifter, 20" x 64", Quadruple deck.

Partial List of Values — Send for Complete Circular

TEXAS OFFICE: 4101 San Jacinto Street, Houston 4, Texas — Tel.: JAckson 6-1351

BRILL EQUIPMENT COMPANY
35-61 JABEZ ST., NEWARK 5, N.J. Tel.: MArket 3-7420

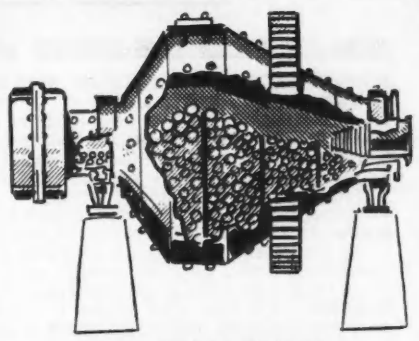
Renting Equipment has many advantages!

Continuous Fine Grinding Equipment Offered Direct from Location Where Originally Operated

Priced For Quick Disposal

3 Allis Chalmers (2 compartments) 7'x22' Compeb Mills with Meehanite liners; each directly coupled to 400 H.P. motors.
1 Allis Chalmers 9'6" Continuous Ball Mill; or PRELIMINATOR with Meehanite liner; directly coupled to 400 H.P. motor.
3 Allis Chalmers 7'x22' Continuous Tube Mills; with three 14' Raymond Double Whizzer Air Classifiers; each mill directly coupled to a 400 H.P. 3/60/2200 V 180 RPM motor.
3 Raymond 14' Mechanical Air Separator with Double Whizzer. Each Separator V-Belted to a 75 H.P. motor. NEW IN 1950.

All Mills and Classifiers were operated in CLOSED CIRCUIT.
Also available are Steel Enclosed Bucket Elevators and Screw Conveyors.



FIRST'S WEEKLY FEATURE
SAVE $3500

On THIS Hardinge Conical Ball Mill 3' x 8" with Feeder, Cyclone Collector, Fan, Motors, etc.

FIRST COME—FIRST SERVED

SPOTLIGHT SPECIALS

J. H. Day 125 Gal. Gearless Pony Mixer; 10 HP Motor.
Raymond Hi-Side Mill 5057 60 HP; w/access.
Buflovak Type 316 Stainless Rotary Vac Dryer; 3' x 7'6" complete.
Colton Stainless Steel Rotary Granulator.
Mikro 4TH 24" Pulverizer.
Kent 3 Roll Lab. Mill 4" x 8".

PLASTIC and RUBBER EQUIPMENT

Unused F-B 14" x 30" Two Roll Mills
Good used 2 Roll Mills, 12"x24", 22"x60"
6 Southwark Presses, 36" x 36", 14" Ram
Stewart-Boiling Press 36" x 36", 22" Ram
HPM Self Cont. Presses, 7 and 25 Ton
EXTRUDERS: NRM 1½"; NRM 6" Rubber Tuber, many others
Royle 2" Extruder; Hydraulic Strainer 15"
VULCANIZERS: 6'x16', 41"x54", 2'x4', others
Utility Rubber Stock Cutter with Conveyor
Baker Perkins 150 Gal. Disp. Mixer, 150 HP
J H Day Mogul Mixer 150 Gal. V/Cov. 75 HP
Baker Perkins 5 Gal. Disp. Mixer, 30 HP

CENTRIFUGES

Stainless Centrifugals from 30" to 60"; A.T.&M. Tolhurst, Fletcher, etc.
Tolhurst 40" Suspended Centrifuges; Rubber Covered Perf. Baskets and Curbs; Monel Plow-Discharge; 7½ HP.
2 Sharples Stainless Steel Model PN14 Super-D-Canters.
4311 S 1 Sharples C 27 Super-D-Hydrator in Type 316 Stainless with 40 HP Motor.
5147 S 13-14 Two Bird Continuous Screen Type Horizontal Centrifuges; Monel & S.S.; 24" x 24".
2 Bird Rubber Covered, 48" with Plows; Fume Tight; 40 HP.

REACTORS—PRESSURE VESSELS

2 Stainless 400 gal. Reactors Jktd. Agtd. by Patterson and Struthers Wells.
6 Dorr-Oliver Stainless Steel Thickeners or Reaction Vessels; 550 gal. 5' x 5'.
Stainless Reactor, 2000 gal. Fully Jktd. Agitated.
Nickel Clad Reactor, 7'x11'6".
2 MONEL Reactors; 2800 gal. 6'8"x13'; ASME Jktd. & Intern.
Lancaster Stainless Lined Rotary Reactor or Digester; 50" x 17'4"; Jacketed; good for 300 PSI Internal.
Pfaudler Gl. Lined Reactors; all sizes from 50 to 1000 gal.
Mojonnier Stainless Vac. Pans; 3'x10' and 6' x 12'; others.

EVAPORATORS—DRYERS

Buflovak S/Steel Thermo-Recompression Evaporator.
Buflovak S/Steel Dbl. Effect Evaporator Model 8½-60 D.

MIXERS ALL TYPES

Baker Perkins Jktd. 5 gal. UNE-7, Dbl. Arm Mixer with pressure cover; 30 HP.
Readco Jktd. 15 gal. Dbl. Arm Sigma Blade Mixer.
BLAW-KNOX 600 cu. ft. Conical Blender; 9'6" Dia.
Stainless Steel 150 gal. Jktd. Dbl. Arm Mixer with Vac. Cover; Hydr. Tilt.
Other Baker Perkins Jktd. Mixers, 150 gal., 200 and 300 gal.
J. H. Day Cincinnatus Dbl. Arm Mixer; 300 gal. STAINLESS Jacketed.
NOW IN STOCK for IMMEDIATE DELIVERY. ALL SIZES FALCON Ribbon Blenders in Steel or Stainless.

MILLS—PULVERIZERS

2 Stainless Steel Micronizers 30".
Abbe, Ball & Jewell Rotary Cutters; in a wide range of sizes, capacities.
Ball Mills and Pebble Mills by Abbe, Paterson, International, some Jacketed; up to 8' x 8'.
Mikro Pulverizers up to No. 4's.
Fitzpatrick Comminutators; Models D, K and C; motorized.
American Ring Roll Crusher; 50 HP.
Mikro S/S Atomizers; Nos. 6 and 5.
Raymond Imp Mills; many sizes.
Williams Hammer Mills to 60 HP.

OLIVER PRECOAT FILTERS

3" x 2" Monel. 5'3" x 8' Stainless.
(2) 5'3" x 3" Steel or Rubber.
Feinc S/S Rot. Vac. Filter 3' x 1'.
Oliver Cont. Rot. Vacuum Filters.
Panel Type; 8' x 8' and 8' x 10'.

FILTERS—FILTER PRESSES

4 Pressure Filters 30" x 56" Type 316 Stainless; 100 sq. ft.

FIRST MACHINERY CORP.
209-289 TENTH STREET, BROOKLYN 15, N. Y.

FMC Pays MORE For Your Surplus

PARKING ON THE PREMISES
Phone: STerling 8-4672
Cable Address: "EFFEMCY"

F M C

PHILADELPHIA
—THE PLACE TO BUY PROCESS EQUIPMENT!

SELECTED RECENT PURCHASES

3—PFAUDLER 100 GAL. STAINLESS JKT. KETTLES, DOUBLE-MOTION AGIT., TILTING KETTLE BOWL.
1—ALLIS-CHALMERS 5' x 5' BALL MILL, 75 HP DRIVE, FEEDER.
1—NERCO-NIRO PORT. STAINLESS LAB. SPRAY DRYER.
1—FLETCHER 30" UNDERDRIVEN STAINLESS CENTRIFUGAL.
5—F. J. STOKES #138J-16 VACUUM SHELF DRYERS, 195 SQ. FT., 16 SHELVES 40" x 44", SINGLE DOOR.
1—HARDINGE 8' x 48" CONICAL PEBBLE MILL, AIR-SWEPT.
6—VALLEY 36" ALUMINUM P. & F. FILTER PRESSES, CLOSED DELIVERY, 65 CHAMBERS, HYDRAULIC CLOSURE.
1—RAYMOND 50", 5-ROLLER HI-SIDE MILL, DBL. WHIZZER.
1—60" DIA. x 35 PLATE, T316SS BUBBLE-CAP COLUMN, 42' HIGH.
2—FRENCH OIL TYPE #2-S SCREW TYPE EXTRACTION PRESSES.
2—STAINLESS STEEL REACTORS, 200 GAL., JACKET & AGIT.
1—GEMCO 60 CU. FT. STAINLESS CONICAL BLENDER.
2—DAVENPORT #3A DEWATERING PRESSES.

DRYERS

5—F. J. Stokes #138J-16 vac. shelf dryers, 195 sq. ft., 16 shelves, 40" x 44".
5—BUFLOVAK 42" X 120" DRUM DRYERS, ASME 160#.
1—American 42" x 120" dbl. Drum dryer, ASME, stainless.
1—Buflovak 42" x 90" dbl. drum dryer.
1—AMERICAN 36" X 84" DBL. DRUM DRYER, ASME, VACUUM.
1—BUFLOVAK 5' X 12' SINGLE DRUM DRYER, VACUUM.
1—Buflovak 32" x 52" dbl. drum dryer, ASME 100# WP.
1—Buflovak 6" x 8" dbl. drum dryer, vacuum.
2—Buflovak Vacuum shelf dryers: 110, 98 sq. ft.
2—Hardinge 8'8" x 70' rotary dryers, ⅜" welded.
2—DAVENPORT 8' X 60' ROTARY DRYERS, 7/16" WELDED.
1—Louisville 4'6" x 25' rot. steam-tube dryer, welded.
1—Hardinge 4' x 30' rot. steam-tube dryer.
1—Bartlett 3' x 15' rotary dryer, everdur shell.
1—Wyssmont #6-18 tray dryer, 18 stainless trays.

MIXERS

50—BAKER-PERKINS #17, 200 GAL. SIGMA JKTD. MIXERS.
1—Baker-Perkins #16, 150 gal. sigma jktd. mixer.
1—BAKER-PERKINS #15-UUMM, 100 GAL. DISPERSION MIXER, 100 HP, ASME JACKET, CORED BLADES, COMPRESSION COVER, MOTORIZED TILT.
1—J. H. Day #6 Cinc., 100 gal., sigma blades, Stainless.
2—Baker-Perkins #15, 100 gal., sigma jktd. mixer.
1—Read 100 gal., sigma blades, non-jacketed.
2—J. H. Day #5 Cinc., 75 gal., sigma blades.
1—J. H. Day #2 Cinc., 20 gal, jktd., sigma blades.
1—Marco continuous Roto-feed mixer, Stainless.

STAINLESS STEEL TANKS

1—5700 gal. horiz., T304 SS, 6'4" x 24', UNUSED.
1—4300 GAL. HORIZ. T304 SS, 6' x 20', DISHED HEADS, 50# WP.
1—3300 gal. vert., T304 SS, 6' x 14', dished heads.
1—3200 gal., vert., T304SS, 6'6" x 12', dished heads, coils.
1—3000 gal. vert., T304 SS, 6' x 15', coils, Vac.
3—2750 GAL. VERT., T316 SS, 7' x 8', DISHED HEADS, COILS.
1—2500 gal. vert., T316 SS, 7' x 7', dished heads, agit.
2—2300 gal. vert., T316 SS, 7' x 8', coils, agit.
4—2250 GAL. VERT., T316 SS, 7' x 6'3", DISHED HEADS.
1—2100 gal. vert., T316 SS, 6' x 9'10", cone bottom.
12—1750 gal. vert., T304 SS hoppers, 235 cu. ft.
1—1600 gal horiz., T304 SS, 5' x 11', dished heads.
6—685 gal. vert., T316 SS, 3' x 13', coils.

EVAP. — EXCHANGERS — CONDENSERS

2—16,200 SQ. FT. QUAD. EFFECT EVAP., COPPER TUBES, CAST IRON BODIES.
1—MOJONNIER 2085 SQ. FT. TRIPLE EFFECT, T304 SS, WITH PREHEATERS.
1—BUFLOVAK 1025 SQ. FT. DBL. EFFECT, T304 SS, SIZE #8-50-D.
1—Buflovak 840 sq. ft. dbl. effect, T304 SS, size #7.5-42-D.
1—Buflovak 710 sq. ft., dbl. effect, T304 SS, size #7-35-D.
1—Buflovak 700 sq. ft. single effect, T304 SS, forced circ.
1—STRUTHERS-WELLS 630 SQ. FT. SINGLE EFFECT, T316 SS, CALANDRIA TYPE.
1—Buflovak 588 sq. ft. dbl. effect, T304 SS, size #6.5-29-D.
1—F. J. Stokes 118 sq. ft. single effect, T316 SS, U-tube still.
2—Rogers 6' dia. vacuum pans, T304 SS, int. coils.
1—1960 SQ. FT. T316 SS, HORIZ. EXCHANGER, ASME 75# WP.
1—1450 sq. ft. T316 SS vert. condenser, remov. bundle.
1—800 SQ. FT. T316 SS VERT. CONDENSERS, ⅝" OD TUBES.
1—730 sq. ft. T316 SS horiz. exchanger, remov. bundle.
6—691 SQ. FT. ANSONIA COPPER DOUBLE-PIPE COOLERS.
1—510 SQ. FT. T316 VERT. COND., REMOV. BUNDLE.
4—T316 SS exchangers-condensers: 427, 425, 410, 400 sq. ft.
10—T316 SS exchangers: 290, 277, 264, 250, 200, 185, 165, 150, 145, 105 sq. ft.
8—T316 SS exchangers, 83, 73, 54, 52, 50, 47, 30 sq. ft.
10—Enzinger 185 sq. ft. T304 SS contin.-flow exchangers.

PERRY EQUIPMENT CORP.
1407 N. SIXTH ST., PHILA. 22, PA.
Phone: POplar 3-5505

"OUTSTANDING VALUES"

1—Buflovak 42 x 120" vacuum Double Drum Dryer. All access included. Code constructed.
2—6' x 60' Rotary Dryers. ½" shell. Complete with Motor, burner, blower & cyclones.
1—36" x 13½' double Ribbon Mixer. Center discharge. 7½ HP Mtr.
2—Dorrco 60' Thickener Mechanisms, with rakes & motor drives.
1—Nicols Hereshoff Furnace, 8 hearth 13'6" x 17'2", 760 sq. ft.
3—Podbielniak counter current Centrifuges. 316 SS Models 6070 and 9000S.
1—Day 40" x 120" single deck Sifter, mod 81, 2 HP TEFC mtr.
2—Patterson 3' x 4' jcktd Ball Mills, 10 HP ex prf Mtr.

For immediate quote, wire or phone collect—GA 1-1380

ME MACHINERY AND EQUIPMENT COMPANY
123 Townsend St. · San Francisco 7, California

EQUIPONOMICS

BIRD Continuous Centrifuges 18" x 28" 316 S.S. (1952) 15 H.P. Washing

OLIVER VACUUM FILTER—S.S. 316, 3'x6'
COLUMN S.S. 4' D x 65' high, 55 plates.
TANKS S.S. 304, 2500 gal. 7' x 8' new.
KNEADER MASTER — Paterson 2½ gal.
CENTRIFUGE—Tolhurst 40" rubber lined.
SHARPLES #16 S.S. Super 2 H.P.
COLLOID MILL—Premier UB3 S.S. 5 H.P.
HEAT EXCHANGER—S.S. 500 sq. ft.
EVAPORATORS—Monel, S.S.—150,580 sq. ft.
LOUISVILLE ROTARY DRYER 1' x 8'—S.S.

PROCESS PLANTS SERVICE, INC.
287 Central Ave., Clark, N.J. Tel. FUlton 1-1103-4

2—OLIVER PRESS PRECOAT FILTERS 5'3"—Type 316 S.S.
4—RIBBON BLENDERS, 2500 gal., 1200 gal.
2—AUTOCLAVES S.S., 50 gal. 2000 lb., 3½ gal., 2000 lb.
1—DRUM DRYER, Proctor & Schwartz.
4—COLLOID MILLS, 5 HP EX PR., 15 HP, 40 HP.

Machinecraft Corporation
808 Wilson Avenue, Newark 5, New Jersey
Mitchell 2-7634

FOR THE BEST IN USED EQUIPMENT

Conical Dry Mixer 192 cu. ft. vol.; 125 cu. ft. opr. vol., with 15 H.P. Unibrake Motor.
4—Werner & Pfleiderer 200 gal. jktd., sigma blade Shredders.
2—Ball & Jewell #2 Cutters.
4—Link-Belt Vibrating Screens 4' x 8'.
1—Jeffrey Vibrating Conveyor.
1—30" Sperry Filter closed del., 3-eye, 39-plates, 40-frames.
1—42" Sperry Filter 40-plates, 41-frames, hyd. closing, open del.
1—International Ball Mill, porcelain lined, 48" x 60", 15 H.P. Unibrake Motor, 2-drums balls. Like new.
1—Schutz-O'Neill Pulverizer 22", Style D.
1—Abbe Pebble Mill 5' x 22'.
1—Sparkler Filter 33-S-28, with Scavenger Plate, steam jacketed.
1—2 qt Sigma Blade S.S. Mixer.
1—250 gal. S.S. Kettle, nickel jacket, 100#.
1—Patterson Steam Jkt. Ball Mill 42" x 36" dia.
2—Louisville Steam Tube Dryers 6' x 25'.
1—430 S.S. Tank 3000 gal. vert. ⅜ plate, with 2 pc. cover.
2—Vacuum Pumps, Gardner-Denver, 5" bore 4" stroke, with 7-½ H.P. motors.
1—±316 S.S. Reactor 265 gal. jkt.
2—Twin Screw Mixers 120 gal. jkt.
2—Aetna Water Stills 20 gph, new.

Large stock of new and used H.P. Boilers, Tanks, Pumps, Heat Exchangers, Freon Compressors, Stainless Steel & Brass Valves. Advise us as to your requirements.

H. LOEB & SON 4643 LANCASTER AVE., PHILADELPHIA 31, PA.

LIQUIDATION
at NIAGARA FALLS, N. Y.

Pfaudler 500 gal. Type ELL Glass Lined, jktd., agit. Reactor.
4500 and 4000 gal. 316 Stainless Steel Coil Pans.
Dopp 1000 & 1700 gal. Ni-Resist Doppoloy, jktd., agit. Reactors.
Goslin Birmingham 36" x 24" Stainless Rotary Vacuum Filter.
Buflovak 6" x 8" double drum Rotary Vacuum Dryer.
A. T. & M. 40" & 30" Stainless Susp. Centrifuges, perf. & imperf. Baskets.
Buflovak 6' Dia. Crystallizers, atmospheric & Vacuum.
Nash #9, #4, K5 and TS10 Hytor Vacuum Pumps.
Squire 500 sq. ft. tray truck Dryer.

STAINLESS COLUMNS

12"x20'—Packed
36"x21'—Packed
36"x17'—15 cap trays
48"x40'—40 cap trays
54"x30'—26 cap trays
72"x30'—21 cap trays
78"x18'—14 cap trays

COPPER COLUMNS

24" x 8'—15 cap trays
24"x17'—24 cap trays
30"x11'—12 cap trays
36"x12'—15 cap trays
48"x16'—21 cap trays
48"x25'—35 cap trays
72"x16'—16 cap trays

MISCELLANEOUS

S.S. Condensers 1000 to 68 sq. ft.
S.S. Centrif Pumps 2", 1½", 1".
Norwalk Compressor 15000 PSI.
Gear Reducers - Agitators - Blowers.
S.S. Valves, Pipe, Tubing.

TANKS

STAINLESS TANKS

11000 gal. Horiz. 8'x29'6"
4500 gal. Vert. w/coils
4000 gal. Vert. w/coils
4000 gal. Vert. 7'6"x12'
3500 gal. Vert. w/coils
3500 gal. Vert. 8'x9'
1500 gal. Horiz. 6'x6'9"
1200 gal. 5'x8' Agit
900 gal. 5'x6'
750 gal. 5'x5' Agit
500 gal. 3'6"x8' Agit
500 gal. Vert. w/coils
400 gal. 4'x4' Agit
300 gal. 4'x3' Cone bot
150 gal. 3'x3' Agit

GLASS LINED

2000 gal. Horiz. 6'x10'
1000 gal. Vert. Agit
900 gal. Horiz. 5'x5'6"

ALUMINUM TANKS

12000 gal. Horiz. 10'x23'
10000 gal. Horiz. 9'x23'
7000 gal. Vert. 10'x12'

COPPER TANKS

3500 gal. 8'x9' w/coils
2000 gal. 7'x7' w/coils
500 gal. 4'x5' w/coils

STEEL TANKS

22000 gal. Vert. 12'x25'
11000 gal. Horiz. 8'x30'
8500 gal. Vert. 8'x22'
5000 to 250 gal. (50)

Representatives on Premises
Complete Details on Request

HEAT & POWER CO., INC.
60 East 42 Street, New York 17, N. Y. Murray Hill 7-5280
Site Office—Pine Ave. & 47th Sts., Niagara Falls, N. Y. Butler 5-3644

EQUIPMENT
for CHEMICAL AND ALLIED INDUSTRIES

1—Stokes stainless steel jacketed rotary vacuum dryer, 2' x 6'.

2—Theo. Walters Hastelloy B, 300 gal. jacketed reactors.

1—Pfaudler 750 gal. glass lined jacketed reactor, complete with agitator and drive.

1—Struthers Wells type 316 SS 2000 gal. jacketed reactor, complete with agitators and drive.

5—Pfaudler glass lined jacketed reactors, 30 to 300 gal., complete with agitators and drives.

2—Pfaudler glass lined vacuum receivers, 20 and 30 gal.

1—Buflovak stainless steel jacketed rotary vacuum dryer, 3' x 15'.

16—Kinney 2 stage vacuum pumps, Model KMB-1200 and KDH-130.

1—Stokes single door vacuum shelf dryer with six shelves 24" x 36".

2—Louisville stainless steel rotary dryers, 8' x 50'.

1—Allis Chalmers stainless steel rotary dryer, 6' x 50'.

2—Sturtevant stainless steel #7 dustite rotary batch blenders, NEW.

2—Bonnet rotary kilns, 8' x 115', complete with motors and drives.

1—Bonnet steel rotary cooler, complete with motor and drive, 8' x 50'.

1—American 42" x 120" double drum dryer with drive and motor.

1—Stewart Bolling 2 roll mill, chrome plated rolls, 8" x 16".

1—Raymond 2 roll high side roller mill, complete with oil journals.

1—Williams "Comet" 4 roll mill, complete.

10—Robinson stainless steel double ribbon blenders, 125 cu. ft.

1—Stokes stainless steel rotary vacuum dryer, 3' x 15'.

5—Robinson stainless steel double ribbon horizontal blenders, 255 cu. ft.

1—Gemco double cone conical blender, 40 cu. ft.

1—Baker Perkins SS double arm sigma blade mixer, 9 gal.

1—Baker Perkins Size 16 UUEM jacketed mixer, double arm dispersion type, complete with compression cover and 100 HP motor, 150 gal. capacity.

1—Baker Perkins Size 15, 100 gal. stainless steel jacketed double arm sigma blade mixer.

8—Tolhurst 30" and 40" center slung rubber covered centrifuges, with perforate baskets and motors.

7—Western States 40" type 316 SS suspended type centrifuges, complete with perforate baskets, plows and 40 HP motors.

1—Ross 6" x 14", 3 roll paint mill, high speed complete.

3—Mikro pulverizers, Model #1SH and #2TH, complete.

2—Mikro pulverizers, SS #3TH, complete with 40 HP motors.

20—Davis Engineering stainless steel heat exchangers, 102, 119, 136 and 166 sq. ft., NEW.

1—Hersey stainless steel rotary dryer, 3' x 20'.

R. GELB & SONS, INC.
UNION, NEW JERSEY Est. 1886 MUrdock 6-4900

HERSEY 5' x 26'
ROTARY STAINLESS DRYER
DAY HY-R SPEED MILL
NEW 4000 Gal. STAINLESS TANK

CENTRIFUGALS—12" 30" 40" & 48". Amer. Tool 18' Stainless.
CENTRIFUGES—Sharples #5 & 6 S.S.
DRYERS—Hersey 5' x 26' Rotary Stainless Buffalo 32" x 90" Double Drum Dryer Buffalo Vac. Drum Dryer 24" x 20". Despatch Ovens Elec. Heated. 3—Devine & Stokes Vac. Shelf Dryers.
FILLERS—Powder & Liquid. Also Labelers.
FILTERS—#2 Sweetland 12 Stainless covered leaves. Hercules Filter 36". Ertel 6" & 10" Disc type.
FILTER PRESSES—6" to 36" Iron & Wood.
KETTLES—Stainless Jack. 20 to 500 gals. Dopp 350 gal. Cast Iron Jack. Vacuum. Devine Impreg. Units 30" & 36" dia. Steel Alum & Copper 5 to 2,000 gals.
MILLS—Raymond #00 Pulverizer 30 HP complete. Also #0000. Mikro Pulverizer #4, 2S1, 2TH, 1SH. Hammer Mills & Pulverizers 3 to 50 HP. Williams #3 & #2XX Hammer Mills. Taylor-Stiles 7½ HP Cutter. Rotary Cutters 1 HP & up. Sprt-Wald Stainless Spike Crusher. Pebble, Jar & Ball Mills. Lab to 6' x 8'. 3 Roll, 9" x 24", 12" x 30", 16" x 40". Lehmann 4 Roll W. C. 12" x 36" Steel.
MIXERS—Baker Perkins 100 gal. Jack. B. P. 15 HP—Masticator Mixer. Day Imperial 75 & 150 gal. Change Can Mixers 8, 15, 40, 80 gal. Day Jumbo 700 gal. horiz. Mixer. Sprout-Waldron 10,000# horiz. Spiral Mixer. Blystone 3000# horiz. spiral Mixer. Day 1000# horiz. Dry ribbon Mixer. Dry Spiral Mixers 50 to 10,000#. Lancaster 6' dia. 25 HP & #1, 3 HP.
PUMPS—Vacuum 10 to 500 CFM. Gould 75 HP Centrifugal 250 PSI.
SIFTERS—Day, Robinson Rotex type.
SOAP MACHINERY—Toilet, Laundry, etc.
TABLET MACHINES—Colton 4½ T. Stokes R single punch & RD1 rotary.
TANKS—Stainless, GL., Lined, Steel.
MISC. Boilers Gas & Oil. Conveyors.

Partial Listings — Write for Bulletins

STEIN EQUIP'T CO.
107 8th St., Brooklyn 15, New York
STerling 8-1944

ECH SPECIALS

Blaw Knox SS 100 gal. Autocl. Agtd. 1000 PSI.
Patterson SS 5 cu. ft. Twin Blender, 3 HP.
Fractionating Column 316 SS, 2½"x22'.
Oliver 316 SS Filter 6' dia., 25 sq. ft. cap.
Pfaudler 1500 gal. Glass Tank; closed top.
Simpson 18" Lab. Mix Muller with ¾ mtr.
Abbe 5'x6' Jktd. Ball Mill, chr. mang. steel.
Cavagnaro sig. arm 200 gal. SS Mixer, 75 hp.
2—SS Fitz Mills model D, w/5 HP mtr.

WE BUY COMPLETE PLANTS OR SINGLE UNITS
New Machinery Div. for New Fabrications
Tel. SOuth 8-4451—4452—8782

YOU CAN BANK ON
Equipment Clearing House, Inc.
111 33 Street, Brooklyn 32, N.Y.

1—Procter & Schwartz 5 unit single Conveyor Dryer with stainless steel apron. Can be inspected in operation.
1—200 gallon Stainless Steel jacketed Vacuum Mixer, dbl. naben cored blades, hyd. tilt, with 75 h.p. 2 speed ex. proof motor.
1—Stokes #294 single punch Tablet Press. 60 ton top and bottom pressure. With 7½ h.p. vari-drive.
1—Buflovak 5x12' Vacuum Drum Dryer, chrome plated drum, Stainless Steel housing. With collector and drive and motor.
2—Stokes DDS2 Rotary Tablet Machines with motor and vari-drive.

BILL WOLF, Inc.
2708 CAROL ROAD UNION, N.J.
MUrdock 6-8883

FOR IMPOSSIBLE BUDGETS

6' DIA. DOUBLE WHIZZER
STAINLESS STEEL CONTACT PARTS
Raymond 6' Double Whizzer, V-belt drive. Purchased new in 1952.
IMMEDIATELY AVAILABLE AT A FRACTION OF NEW COST
Wire or phone collect—GA 1-1380

ME MACHINERY AND EQUIPMENT CO.
123 Townsend St. - San Francisco 7, Calif.

CHOICE EQUIPMENT

2—Sparkler 14" & 8" Stainless Steel Filters.
5—Hercules 16" & 8" Square Stainless Steel Filters.
1—Homo Mixer 1 HP XP Motor.
1—Charlotte ND20 — S.S. Colloid Mill—XP Motor.
4—Worthite S.S. Pumps—8" x 6"; 3" x 2"; 2½" x 2".
1—Stainless Steel 30 gal. Autoclave 1000 psi w/Jacket & Agitator w/XP Motor.
1—Cyclotherm Package Boiler 250 psi. 600# hr.—20 HP.
4—Stainless Vacuum Receivers 50 to 100 Gals. 250 psi.
1—Horiz. Closed Spiral Mixer, 3' x 12', Jack.
3—Spiral Blenders, 800 to 2000#.
1—Day Stainless Steel Blender 2000#.
1—Patterson 5' x 6' Jack. Ball Mill, 25 HP.
1—Day 50 gal. S.S. Sigma Blade Mixer.
1—N. J. MX Pony Labeler.
1—Raymond 30" Whizzer Separator.
5—Rotex Screens 20" x 38" to 60" x 84".
1—Kent High Speed 3 Roll Mill 13" x 32".
1—Devine Vac. Shelf Dryer, 10 shelves, 40 x 43.
1—Kent 20 Gal. Super Pony Mixer.
1—Mikro 3TH Pulverizer 15 HP.
1—Pfaudler 750 Gal. G.L. Reactor.

Send Us Your Inquiries.
We Buy Your Surplus.

THE MACHINERY & EQUIPMENT CO.
91-93 New Jersey R.R. Ave., Newark 5, N. J.
Market 2-3103

BUY with Confidence

OUTSTANDING MACHINERY-RIGHT NOW! WHEN YOU NEED IT!!

4—Jacketed steel ball mills 2' x 3', 3' x 4', 4' x 5', 5' x 6'.
1—Pfaudler 30 gallon glass lined jacketed and agitated reactor with condenser.
3—Sparkler model 33-S-17 rubber lined filters, 92 sq. ft.
2—F. J. Stokes rotary vacuum dryers 2½' x 8', 18" x 42".
4—Ribbon blenders 7500, 2000, 1200, 1000#.
1—Sharples super-d-hydrator model C-20, stainless steel basket, knife and rake.
4—F. J. Stokes tablet presses models F, R, RD-3, BB-2.
3—Mikro pulverizers models 3-TH, 2-TH, 1-SH.
1—Readco heavy duty 50 gallon sigma bladed double arm jacketed mixer.
1—40" rubber lined suspended centrifuge, perforated basket.
5—Stainless steel jacketed and agitated reactors 50, 100, 125, 400, 1000 gallons.
3—F. J. Stokes Micro vac vacuum pumps 15, 50, 115 CFM.

Write or Phone Your Inquiries

CP chemical & process machinery corp.
52 Ninth St.
Brooklyn 15, N.Y.
HYacinth 9-7200

Business Wants and Offers

RATES PER INSERTION—PAYABLE IN ADVANCE (Not Subject to Agency Commission)
ALL CLASSIFIED ADVERTISEMENTS—$8.00, thirty-six words or less; $1.50 for each additional six words or fraction.

NO DISPLAY—First two words printed in bold face type.

COPY DEADLINE—Wednesday Noon Preceding Date of Publication

Send replies to ads with box numbers to
OIL, PAINT AND DRUG REPORTER, 30 *Church St., New York 7, N Y.*

BUSINESS OPPORTUNITIES

Are you interested in European common market? Old established West German chemical and pigment producer owns large industrial tract on Rhine looking for American manufacturer with funds to match theirs in joint venture. OPD 197.

EQUIPMENT OFFERED

For Sale: 5,780 sq. ft. Quadruple Effect Evaporator with cast iron bodies copper and monel tubes; four stainless steel Double Effect Evaporators, Blaw-Knox Co. (Buflovak) 608-708-840-1025 sq. ft. each; 5,000-1,000 gal. stainless Tanks; 3,000 and 900 gal. stainless Tanks with coils for full vacuum. Best Equipment Co., 1737 Howard St., Chicago 26, Illinois.

ALUMINUM CONDENSER, 350 sq. ft.
4—24" FILTER PRESSES, S.S. fittings, wood frames.
LAPP FITTINGS, VALVES.
Continuous Stripping COLUMN 2x13.
ALUMINUM EVAPORATOR, Calandria type, 1300 sq. ft.
BLENDER—Double Cone, 70 cu. ft.
Ribbon Blenders, Hydraulic Pumps.

MACHINECRAFT CORP.
800 Wilson Avenue, Newark 5, New Jersey
Mitchell 2-7634

LOOK HERE!
COMPARE THESE PRICES
4-KARBATE PUMPS
NEW IN 1958
Model 4-CA-9½, 6" x 4", each with 40 HP Motor. Cap 1500 GPM @37' head. Used only 6 months, condition like new.
Cost new $1760.00
Our price $950.00
Wire or phone collect—GA 1-1380
ME MACHINERY AND EQUIPMENT CO.
123 Townsend St. San Francisco 7, Calif.

EQUIPMENT OFFERED

For Sale: Resina Automatic Capper; Day Stainless Steel Blender 2000#; Day 50 Gal. S.S. Double Arm Mixer; Mikro 3TH Pulverizer; Pfaudler 750 Gallon G.L. Reactor. Harry Pearlman, Market 2-3103. 91 N.J. R.R. Ave., Newark, N.J.

REPRESENTATION OFFERED

Leaving for six weeks July 15 for Italy, Switzerland, France and England. Have time and ability to represent your firm contacting, buying, selling. C. H. Taylor, Prudential Bldg., #1102, Houston 25, Texas.

SERVICES OFFERED

High Vacuum molecular distillation for large quantity runs on a toll basis. Separations without thermal hazard. Molecular Distillations, Inc., 527 Madison Avenue, New York 22, Tele: PLaza 3-6527

MIXERS—3 Qt. Read 316 S/S 2 Sigma Naw, 15 gal. 2 arm Bramley 5 HP vac/jack., 25 gal. 2 arm jack., 250 gal. unused Cowles Dissolver 10 HP xproof.

SCREENS—Single Ajax 12x74 S/S, Tyler 3'x5', Gyrocentric 28x27 & 36x36 S/S, Roball 40x84, double Rotex 20x96, 40x66, Tyler 3x5, triple Rotex 20x84.

HAMMERMILLS—5 HP Sturtevant 00—15 HP Mikro 2DH, 40 HP Jeffrey Rigid, 40 HP Gruendler, 50 HP Williams AKBX, 100 HP Wms. 30 NF.

PEBBLE MILLS—34x38, 36x36, 36x42, 42x36, 48x60, 54x42, 72x96, all with motor drives.

FEEDERS—Syntron F22, F44 S/S vibrating w/rectifiers, controls.

FILTER PRESSES — 7x7 (8pl) lead w/pump, 18x18 (24 p&f), 24x24 (32 p&f), 30x30 (10 p&f).

LAWLER COMPANY
LAWLER PLACE METUCHEN, N.J.
LIBERTY 9-0245

ITALIAN middle size pharmaceutical industry endowed with up-to date plants for chemical organic syntheses, is looking for co-operation for the manufacture in Italy on license of raw-materials for the pharmaceutical industry, exchange of know how and experiences. ***Please write to***
CARLO FORTI • P. O. Box 744, Milano, Italy

Custom Packaging
Water-soluble Envelopes

WOOD RIDGE CHEMICAL CORPORATION
50 PARK PLACE EAST, WOOD-RIDGE, NEW JERSEY
WEbster 9-4600 (N. J.) CHickering 4-7892 (N. Y.)
Successor to F. W. Berk & Company, Inc.

we will buy your...
SURPLUS CHEMICALS
SOLVENTS • WAXES • OILS
RESINS • DRUGS • COLORS
WIRE OR PHONE FOR IMMEDIATE ACTION
All offers held in strictest confidence
Barclay CHEMICAL COMPANY, INC.
77 VARICK STREET NEW YORK 13, N.Y. WO 6-4533

Lead Industries Ass'n Takes Its Cue From JFK

Taking its cue from President John F. Kennedy, the Lead Industries Association has chosen "Lead's New Frontiers" as the theme of its thirty-third annual meeting, to be held May 2 and 3 at the Drake hotel in Chicago.

One session will be given over to the latest technological developments in the lead industry. At another session, S. F. Radtke, research director of the association, will give a progress report on the group's expanded research program.

The opening session will be held jointly with the American Zinc Institute.

TB&CC's Diversification

—Continued from page 3

family is a copolymer having a molecular weight of approximately 1,600. Derivatives of this resin having varying degrees of esterification are also available.

Certain important properties vary with degree of esterification and the range available allows wide latitude in achieving desired performance.

The "SMA" resins in anhydrous form are white, free flowing powders having melting points ranging from 95 to 165° C. and acid numbers ranging from 186 to 500. Also available are the ammonium hydroxide solutions of these resins at 50 percent solids concentration and having good color.

The new resin series marks the first venture of Texas Butadiene into the field of resins and plastics. The company produces butadiene, butylenes, propylene and aviation gasoline. It also is a partner in a substantial synthetic rubber producing complex in France.

Acetylene and duPont

—Continued from page 5

ville, Ky., neoprene plant until 1968—but at reduced prices.)

Dr. William C. Kay, general manager of duPont's elastomer chemicals department, says that low cost routes to the der investigation by duPont for the der investigation by the duPont for the last quarter of a century. He adds that the new process, a modified arc technic, is thought to offer substantial improvements over other hydrocarbon processes now operated either here or in Europe.

DuPont has been purchasing acetylene from outside sources since it first developed neoprene nearly thirty years ago.

The duPont venture in acetylene is not the only one to be announced recently. Borden Chemical Company and United States Rubber Company have reported that they are planning a hydrocarbon venture near Geismar, La. (OPD, 11/28/60). The unit will have capacity for 80 million pounds of acetylene yearly.

Pollution, Water Conversion

—Continued from page 3

tion is required annually to keep pace with the growing rate of pollution.

The President endorsed the Blatnik-Kerr bills for more than doubling federal contribution for municipal treatment work, and called for new leadership, research and financial and technical assistance for control of air pollution.

To press forward on these twin problems, Mr. Kennedy proposed that they be handled a special new unit in the Public Health Service, armed with strong enforcement procedures to abate serious pollution situations of national significance.

He urged that congress extend the current saline water conversion research program and increase funds to a level commensurate with the effort current studies will show to be needed—now estimated to be at least twice the level previously requested.

WANTED!
CHEMICALS—DYES
PHARMACEUTICALS
SOLVENTS—OILS
INTERMEDIATES
PLASTICIZERS—WAXES
PIGMENTS—COLORS
PACKAGED ITEMS
EQUIPMENT—PLANTS
BY-PRODUCTS
SELL NOW!
TURN INVENTORIES INTO CASH!
Chemical Service Corporation
88 BEAVER ST., NEW YORK 5, N.Y.
Tel: Hanover 2-6970
Cable address "RETORTS" N.Y.

Current Market Quotations

—Continued from page 29

Zinc chloride NF gran., dms.	lb.	.42	—
NF precip., powd., dms	lb.	.26	—
Tech. soln., 50%, dms., c.l., works 100 lbs.		5.80	—
dms., t.c.l., works 100 lbs		6.40	—
tanks, works 100 lbs.		5.15	—
fused dms. c.l. works 100 lbs.		10.70	—
dms., t.c.l. works 100 lbs.		11.20	—
gran. fib dms. c.l., works 100 lbs.		11.45	—
fib dms. t.c.l. works 100 lbs.		11.95	—
Zinc chromate bbls., dlvd	lb.	.29	—
Basic bbls. dlvd	lb.	.34	—
Zinc cyanide dms., 1,000-lb. lots or more, works	lb.	.55	—
dms. smaller lots, works	lb.	.57	—
Zinc dust coml bbls. c.l. works	lb.	.16	—
Pigment, bbls., c.l., works	lb.	.15½	—
bbls., t.c.l., works	lb.	.17¼	—
Zinc fluoride, bbls. works	lb.	.49	.50
Zinc hydrosulfite dms. c.l., frt. alld	lb.	.21½	—
dms. t.c.l. frt. alld	lb.	.23½	—
Zinc metal, prime western, slabs, E. St. Louis	lb.	.12	Nom.
Prime western slabs, New York,	lb.	.12½	Nom.
Zinc naphthenate liq 8% Zn., dms., frt. alld	lb.	.27	—
10% Zn., dms., frt alld	lb.	.33	—
Zinc nitrate, tech., flake, 100-lb. fib. dms., t.c.l.	lb.	.16½	—
300-lb. fib. dms. t.c.l	lb.	.14½	—
300-lb. fib. dms., c.l.	lb.	.14	—
Zinc oxide, pigment, American process, lead-free bgs. c.l., frt. alld	lb.	.12½	—
bgs., t.c.l., 10 tons or more, same basis	lb.	.13	—
bgs., t.c.l., smaller lots, same basis	lb.	.13½	—
Zinc oxide, leaded, 35% bgs., c.l., mills, frt. alld	lb.	.13⅜	—
bgs., t.c.l. 10 tons or more, same basis	lb.	.13⅞	—
50%, bgs., c.l., same basis	lb.	.13¾	—
pigment, American process, leaded, 50%, bgs., t.c.l., 10 tons or more, same basis.	lb.	.14½	—
French process, green seal, bgs., c.l., mills, frt. alld	lb.	.14½	—
bgs., t.c.l. 10 tons or more, same basis	lb.	.15¼	—
Zinc oxide, French process, green seal, bgs., t.c.l., smaller lots, same basis	lb.	.15¼	—
red seal, bgs. c.l. same basis.	lb.	.14½	—
Zinc oxide, French process, green seal, bgs., t.c.l., 10 tons or more, same basis	lb.	.15¼	—
bgs., t.c.l. smaller lots, same basis	lb.	.15¾	—
Zinc oxide, white seal, bgs., c.l., same basis	lb.	.14¾	—
bgs., t.c.l., 10 tons or more, same basis	lb.	.15½	—
bgs., t.c.l., smaller lots, same basis	lb.	.15¾	—
Zinc oxide, USP dms., c.l., frt. alld.	lb.	.16	—
dms., t.c.l., 10 tons or more, same basis	lb.	.16½	—
dms., t.c.l., smaller lots, same basis	lb.	.17	—
Zinc phenolsulfonate, NF, gran., dms	lb.	.45	.46
NF, powd. dms	lb.	.48	.49
Zinc resinate, precip. 7.2-7.6% Zn., dms., frt. alld	lb.	.45	—
Zinc silicofluoride dms works	lb.	12½	.14
Zinc stearate, USP, ctns., c.l.	lb.	.41	—
	lb.	.41	—
ctns., t.c.l	lb.	.42	.46
Zinc sulfate, powd., monohydrate, 36% Zn, bgs., c.l., dlvd.E.	100 lbs.	8.75	—
bgs., t.c.l., dlvd. E	100 lbs.	9.75	—
Zinc sulfate in bbls 40c. higher.			
Zinc sulfide, pure, bgs. c.l. dlvd	lb.	.2530	—
Zinc undecylenate, 75-lb. fib. dms., f.o.b. works	lb.	2.04	—
Zinc, yellow (see Zinc chromate)			
Zinc-ammonium chloride, bgs., c.l., works	100 lbs.	10.25	—
bbls., c.l., works	100 lbs.	10.85	—
bbls., t.c.l., works	100 lbs.	11.35	—
Zinc-formaldehyde sulfoxylate, basic, 300-lb dms., frt. alld	lb.	.26	—
Normal, 250-lb. dms., frt. alld	lb.	.55	—
Zircon (G) gran., bgs., c.l., works,	lb.	.03⅛	—
Zircon (G) gran., bgs., 5 tons to c.l., works	lb.	.03¾	—
bgs., 1 ton to 9,999-lb. lots, works	lb.	.04	—
bgs., smaller lots, works	lb.	.06½	—
Zircon (G), milled, bgs., c.l., works,	lb.	.04½	—
bgs., 5 tons to c.l., works	lb.	.04¾	—
bgs., 1 ton to 9,999-lb. lots, works	lb.	.04⅝	—
bgs., 500-1,999-lb. lots, works	lb.	.07½	—
Zircon (G) in barrels 1c. higher.			
Zirconium acetate soln., 13% ZrO_2, dms., c.l., 30,000 lbs. min., works	lb.	.23	—
Zirconium hydride, powd. electronic grade, dms., works	lb.	14.00	15.00
Zirconium oxide, CP, white, grd., bbls. or bgs., works	lb.	1.50	—
Electric-fused lump, bgs., 500 to 1,999-lb. lots, works	lb.	.48½	—
bgs., smaller lots, works	lb.	.51	—
milled, bgs., c.l., works	lb.	.62	—
bgs., 5-ton lots, works	lb.	.62½	—
bgs., 1-ton to 9,999-lb. lots, works	lb.	.63½	—
bgs., 500 to 1,999-lb. lots, works	lb.	.64	—
bgs., smaller lots, works	lb.	.66	—
Glass polishing grade, 94-97% ZrO_2, bgs., works	lb.	.55	.68
Opacifier grade, 85-90% ZrO_2, bgs.,	lb.	.27	.50
Stabilized oxide, 91% ZrO_2, milled, bgs	lb.	.62	.85
Zirconium oxychloride, cryst., ctns., 5-ton lots, works	lb.	.37½	—

— WANTED FOR CASH —
Off Spec. Job-Lot Discontinued } — { Glycols (Any Type) • Plasticizers • Vegetable—Animal Oils
SURPLUS Used or Spoiled } { Solvents • Chemicals • Raw Materials & Finished Goods
Drum Lots to Tanker Lots . . . Any Quantity
Don't Throw Away Materials Which Are Seemingly Useless . . See Us First ! !
HIGHEST SPOT CASH PRICES PAID
CHEMSOL, INC., • 74 Dod Street Elizabeth 3, New Jersey • FLanders 1-2020

Polyformaldehyde Threatened

—Continued from page 3

the Celanese entry into the polyformaldehyde resin market:

- One camp believes that duPont will "almost immediately" file suit for patent infringement by Celanese, claiming coverage by composition-of-matter and formaldehyde-from-trioxane patents.
- The other side feels that duPont's patent position is untenable, citing many overseas and at least two domestic patents taken out and applied for in the recent past.

Domestic formaldehyde producers known to have active programs include Celanese, which has already jumped into the market with both feet, and Heyden Newport Chemical Corporation, which is in the midst of an all-out development program.

Heyden Slates Pilot Plant

Contrary to published reports, Heyden hasn't announced definitely its entry into the polyformaldehyde market. Indications are that the New York-based firm will have a pilot plant in operation "some time next year."

Borden Chemical Company (more than 230 million pounds annually of formaldehyde capacity) and Commercial Solvents Corporation (70 million pounds a year of HCHO) officially no-comment inquiries on polyformaldehyde resin development, but both are understood to have programs in various stages of progress.

Reichhold Chemicals, Inc., (more than 180 million pounds annual formaldehyde capacity has also been looking closely at the resin business, as has virtually every other formaldehyde producer. One big reason: Formaldehyde (37 percent, uninhibited) is only 3¾ cents a pound in tankcars.

Overseas, Badische Anilin-u. Sodafabrik in Germany is said to be on the verge of entering the acetal resin field. BASF holds a British patent on polymeric formaldehydes and has developed a process whereby stable formaldehyde gas is formed from decomposition of lower formaldehyde polymers.

Strong Activity Noted

Strong activity is reported in Japan, France, the Netherlands, Italy and the United Kingdom, with such eminent firms as Imperial Chemical Industries, Ltd., Farbenfabriken Bayer AG, Montecatini Societa Generale and Saint-Gobain involved.

Outside observers believe the strength of duPont's patent covering the composition of matter of "Delrin" as a crystalline polyformaldehyde and processes for making the resins lies in its broadness.

Thermal stability and toughness of such resins is also covered, and it's claimed that the duPont patent includes all formaldehyde polymers that exceed specific values of either property.

On the face of it, however, Celanese couldn't care less. The company, expecting sales of more than 200 million pounds annually of polyformaldehyde-type resins by 1970, is sailing ahead with a construction project embodying a full-size "Celcon" plant at Bishop, Tex., capable of making 20 million pounds a year.

It's thought that the other polymer used in conjunction with trioxane in the new resin might be comprised of a number of materials, including ethylene, propylene and butylene.

Work on polyacetaldehyde makes this material a likely candidate as well, since Celanese recently announced construction of a 100-million-pound-a-year acetaldehyde plant at Bay City, Tex. (OPD, 1/30/61).

While Celanese says it's after the metals market with its new resin, trade observers point out it's not hard to see that they're after some "Delrin" markets as well.

An uneasy silence pervades the formaldehyde market. Producers watch Celanese's entry into polyformaldehyde resins with one question uppermost: What's duPont going to do?

Paint Price Trend

—Continued from page 4

company notes that it has already (February 1) increased selling prices of a selected group of industrial finishes.

In the past six months, paint makers have been getting a break on prices of some plastic resins—notably polyvinyl chloride—and on copper, lead and zinc oxides. The latter have been reduced at various times to reflect oversupplied metals.

But the price trend in most paint raw materials has been upward; and on top of that, producers have run up against increasing costs of labor, containers and transportation.

Gum rosin prices today are sharply above levels of two years ago ($18.25 a hundredweight as against $9.40), bringing higher tabs to a number of synthetic resins.

Then too, the tightness and higher price of phthalic anhydride has brought great strength to a phthalate market that once represented easy pickings for a wary materials shopper.

Although the upward price trend of dry colors has slowed down from the pace of earlier boom years, January 1 still carries enough advances to help pressure paint prices upward.

Mich. Chemical, Haveg

—Continued from page 4

military and civil defense light-weight shielding against the deleterious effect of thermal and fast neutrons, gamma radiation, and other electromagnetic radiation."

Michigan Chemical's rare earths and thorium division is a leader in the scientific and technical applications of the heavy rare earths. In this connection, it is recalled (OPD, 2/6/61) that Michigan Chemical and Dresser Products, Inc., now have a plan under way to supply rare earth materials in final fabricated forms to the nuclear, metallurgical and electronics industries.

The current Michigan Chemical series of thin, thermal-neutron, rare-earth shielding materials—on which US patents have been filed—will be employed in this cooperative program.

When used by themselves or in combination with other substances, the rare-earth shields will resist passage or entrance of certain neutrons into human bodies or into tanks, planes, electronic housings, missiles, fall-out shelters and similar equipment and facilities.

Haveg Industries has long been prominent in the formulation and utilization of special plastics for chemical and missile applications. Utilizing combinations of practically all known plastics and organic and inorganic fibers and fillers, Haveg now compounds and molds or laminates these into shapes of unlimited size or complexity, highly resistant to heat and cold, acids and alkalies, and vibration and pressure.

The ultimate objectives of the new relationship are shields that will meet the unfulfilled protection needs of the nuclear and space age; for example, shields resistant to neutrons of all energies, gamma radiation, and other types of electromagnetic radiation given off by atomic weapons, atomic bombs, and other applications of atomic energy.

Potash Deliveries Off a Little Bit

—Continued from page 7

250 tons; Puerto Rico, 21,350 tons; and Hawaii, 22,880 tons K_2O.

These figures include imports from Europe of 272,884 tons K_2O. Exports to other countries were 428,279 tons K_2O, an increase of nearly 38 percent.

Deliveries of potash for non-agricultural purposes amounted to 151,274 tons K_2O, an increase of 3 percent over 1959. Total deliveries for all purposes were 4,909,440 tons of salts containing an equivalent of 2,884,765 tons K_2O, an increase of more than 3 percent in salts and K_2O.

Potash for agricultural purposes accounted for 95 percent of deliveries. Muriate of potash continued to be by far the most popular material comprising 94 percent of agricultural potash. Of the muriate, standard grade was 1,439,166 tons K_2O, while granular muriate was 1,122,450 tons, a decrease of 2 percent in the standard and as increase of 12 percent in the granular grade compared to 1959. Sulfate of potash and sulfate of potash-magnesia accounted for 6 percent of agricultural deliveries.

The total non-agricultural deliveries of 151,274 tons K_2O were about 5 percent of all potash deliveries and 3 percent over 1959. Included in these were 227,175 tons of muriate of potash containing an equivalent of 142,680 tons K_2O, 12,202 tons of sulfate of potash containing 6,178 K_2O; and 10,378 tons of manure salts containing 2,416 tons K_2O.

Potash Enters 46 States

In Continental United States, agricultural potash was delivered in forty-six states and the District of Columbia. Illinois with over 200,000 tons K_2O was the leading state followed in order by Indiana, Georgia, and Ohio, each taking more than 160,000 tons K_2O during the year.

Due to shipments across state lines, consumption does not necessarily correspond to deliveries within a state.

During the fourth quarter of 1960, deliveries for agricultural purposes were 605,551 tons K_2O in the continental United States; 37,172 tons in Canada; 8,033 tons in Cuba; 4,399 tons in Puerto Rico, and 6,673 tons in Hawaii, making a total of 661,828 tons K_2O, a decrease of 2 percent under last year. These figures include imports from Europe, July through December.

Exports of potash to other countries during the fourth quarter were 117,630 tons K_2O, an increase of 11,251 tons or 11 percent over last year. Deliveries of potash for non-agricultural purposes were 34,951 tons K_2O, a decrease of 11 percent. Total deliveries for the fourth quarter were 1,395,059 tons of salts containing an equivalent of 814,409 tons K_2O, a decrease of less than 1 percent in salts and K_2O under 1959.

In addition to the regularly reported deliveries on the quarter basis, information from governmental and other sources indicates that during July through December, 1960, there were imports of European potash into the United States, Canada, Cuba, and Puerto Rico of 81,201 tons K_2O as standard muriate of potash; 19,527 tons of granular; and 21,459 tons K_2O as sulfate of potash, making a total of 122,187 tons K_2O. These figures are included in the deliveries for the fourth quarter.

Universal Oil to License Sun's Waste Water Process

Universal Oil Products Company, Des Plaines, Ill., will handle licensing arrangements for a waste water treatment process developed by Sun Oil Company, Philadelphia.

The Sun "water management" process will be made available to oil refiners as part of UOP's package of water pollution control programs, a spokesman for UOP says.

The water management process permits re-use of certain refinery waste water streams as make-up water in cooling towers. Through biological oxidation within the tower, concentrations of phenols and related chemicals are substantially reduced.

AEC Will Issue Permit

—Continued from page 4

irradiated materials containing special nuclear material . . ."

Site of the new production facility—to be known as the Martin Radioactive Materials Laboratory—is the former Curtiss-Wright Quehanna Research Facility, now owned by Pennsylvania State University, located in a remote part of north-central Pennsylvania. Nearest towns are Sinnemahoning and Frenchville, both about nine miles from the laboratory.

Advertisers' Index

Allied Chemical Corporation—Plastics Division ... 37
Allied Chemical Corporation, Solvay Process Division ... 30
American Firstoline Corporation ... 31
American Lignite Products Co. ... 48
American Potash & Chemical Corporation ... 32
Arapahoe Chemicals, Inc. ... 38
Argueso, M., & Co., Inc. ... 49
Ashcraft-Wilkinson Co. ... 34

Baker, J. T., Chemical Co. ... 1
Barclay Chemical Company, Inc. ... 54
Becco Chemical Division, Food Machinery & Chemical Corp. ... 31, 33
Bios Laboratories, Inc. ... 40
Blackman, Stanley, Labs, Inc. ... 43
Blockson Chemical Company ... 32
Bower, Henry, Chemical Mfg. Co. ... 33
Brill Equipment Company ... 51
Brode Corporation, The ... 49

California Chemical Company, Oronite Division ... 21
Celanese Corporation of America, Chemical Division ... 56
Chemical Manufacturing Co., Inc. ... 33
Chemical & Process Machinery Corp. ... 53
Chemical Service Corp. ... 54
Chemical Solvents, Inc. ... 56
Chemsol, Inc. ... 54
Commercial Solvents Corporation ... 1
Concord Chemical Company ... 55
Coupe, Robert A. ... 52
Cowles Chemical Company ... 27
Croda, Incorporated ... 49

Dickinson, J. Q., & Co. ... 40
Distillation Products Industries, Div. of Eastman Kodak Company ... 41
Duval Sulphur & Potash Co. ... 34

Eastman Chemical Products, Inc. ... 15
Emery Industries, Inc. ... 48, 50
Equipment Clearing House, Inc. ... 53
Erie Casein Dryers ... 50

Fairmount Chemical Co., Inc. ... 33
Felton Chemical Company, Inc. ... 46
Fiber Chemical Corporation ... 56
First Machinery Corp. ... 51
Fisher Chemical Co., Inc. ... 56
Florasynth Laboratories, Inc. ... 44
Forti, Carlo ... 54
Fritzsche Brothers, Inc. ... 44

Gelb, R., & Sons, Inc ... 53
Givaudan-Delawanna, Inc. ... 46
Gold Leaf Pharmacal Co., Inc. ... 43
Greeff, R. W., & Co. ... 20
Gulf Oil Corporation ... 46

Harchem Division, Wallace & Tiernan, Inc. ... 48
Harshaw Chemical Co., The ... 40
Heat & Power Co., Inc. ... 52
Heico, Inc. ... 32
Henry, J. F., Chemical Co., Inc. ... 53
Hoffmann-La Roche, Inc. ... 10
Hooker Chemical Corporation ... 31
Huisking, Chas. L., & Co., Inc. ... 53
Hutchinson, D. W., & Co., Inc. ... 44

Industrial Raw Materials Corp. ... 49
International Flavors & Fragrances, Inc., Van Ameringen-Haebler Division ... 46
International Petrosolvents, Inc. ... 36
Jefferson Chemical Company, Inc. ... 19
Keppers Company, Inc., Chemicals and Dyestuffs Division ... 13
Lawter Company ... 54
Lebanon Chemical Co. ... 34
Lever Brothers Company ... 25
Loeb, H., & Son ... 52
Lucidol Division, Wallace & Tiernan, Incorporated ... 36
Machinecraft Corp. ... 52, 54
Machinery & Equipment Company ... 52, 53, 54
Machinery & Equipment Co., The ... 53
Magnus, Mabee & Reynard, Inc. ... 44
Meer Corporation ... 40
Merck & Co., Inc. ... 32
Michigan Chemical Corporation ... 40
Minute Maid Corporation, Citrus Products Division ... 45
Mississippi Lime Company ... 33
Montrose Chemical Company ... 20
Morton Chemical Company ... 10
Nepera Chemical Co., Inc. ... 43
Neville Chemical Company ... 56

Old Dutch Mustard Co., Inc. ... 46
Olin Mathieson Chemical Corporation Chemicals Division ... 2

Pan American Sulphur Company ... 34
Penick, S. B., & Company ... 44
Pennsalt Chemicals Corporation, Industrial Division ... 1
Perry Equipment Corp. ... 52
Petro-Tex Chemical Corporation ... 8
Pfizer Chemical Works, Inc. ... 36
Philipp Brothers Chemicals, Inc. ... 31
Pitt-Consol Chemical Co. ... 25
Pittsburgh Plate Glass Company, Chemical Division ... 29, 30
Plastics Division, Allied Chemical Corporation ... 37
Polak's Frutal Works, Inc. (PFW) ... 46
Prior Chemical Corporation ... 1
Process Plants Service, Inc. ... 52
Procter & Gamble Co. ... 35
Publicker Industries, Inc. ... 12

Quaker State Oil Refining Corp. ... 49

Raney Catalyst Co. ... 35
Read, Chas. L., & Co., Inc. ... 50
Reichhold Chemicals, Inc. ... 35
Reilly Tar & Chemical Corporation ... 6
Republic Chemical Corporation ... 31
Riches-Nelson, Inc. ... 56
Richter, Gedeon Pharmaceutical Products, Inc. ... 40
Ross, F. H., & Co. ... 30
Rotexchemie-Brunst & Co. ... 36
Sergeant, E. M., Pulp & Chemical Co., Inc. ... 33
Shamrock Chemical Corporation ... 48
Smith-Douglass Company, Inc. ... 33
Smith, Werner G., Inc. ... 49
Sonocom ... 36
Standard Collapsible Tube Co. ... 40
Stein Equipment Co. ... 53
Strchmeyer & Arpe Co. ... 49
Synthetic Products Company ... 50

Tennant Chemical Division, Tennant Development Corporation ... 36
Tennessee Corporation ... 32

Union Carbide Chemicals Company, Division of Union Carbide Corporation ... 1
U. S. Borax & Chemical Corporation ... 1
United Ultramarine & Chemical Company, Inc. ... 50

Ventura Processors ... 23
Verona Aromatics, A Division of Verona-Pharma Chemical Corp. ... 46

Wallerstein Company, Inc. ... 17
Winthrop Laboratories ... 43
Wolf, Bill, Inc. ... 53
Wood Ridge Chemical Corporation ... 54
Wyandotte Chemicals Corporation ... 36

OPD's Advertising Staff

PRODUCTION: Claire Shannon
BUYERS DIRECTORY: Helen Lehse
NEW YORK (RE 2-9820)—Alexander Kane, Edwin F. Nevy, Bronson Philhower.
CLEVELAND (LOng 1-5044)—Henry G. Seed, 17712 Lomond Boulevard, Cleveland 22, Ohio
MIAMI (FRanklin 9-2668)—John Printup & Associates, Langford Building, Miami 32, Fla.
DALLAS (DAvis 1-0898)—John Printup & Associates, 2607 Milmar Drive, Dallas 28, Tex.
LOS ANGELES (DUnkirk 7-4383)—Robert W. Walker Company, 730 South Western Avenue, Los Angeles 5, Calif.
SAN FRANCISCO (SUtter 1-5568)—Robert W. Walker Company, 57 Post Street, San Francisco

SOAPS CLEANING COMPOUNDS

In Bulk or Packaged

- Soap Flakes
- Powdered Soap
- Pine Jelly Soap
- Yellow Bar Soap
- Dry Cleaning Soap
- Soap Lubricants
- Liquid Soaps
- Automatic Laundry Soap
- Built Soaps

Special Formulations For Your Needs
Private Brand Labeling

Prompt Service · Strict Quality Control

write or call:

CONCORD CHEMICAL CO., INC.
Camden 1, New Jersey
Phone: WOodlawn 6-1526

KETONES

Acetone • Methyl Acetone • Methyl Ethyl Ketone • Methyl Isobutyl Ketone • Diacetone • Diisobutyl Ketone
Hytrol® O (Cyclohexanone)

GLYCOLS
GLYCOL ETHERS
ALIPHATIC NAPHTHAS
POLYETHYLENE GLYCOLS
ALCOHOLS
ESTERS

AMINES
KETONES
AROMATIC SOLVENTS
SURFACE ACTIVE AGENTS
CHLORINATED SOLVENTS
PLASTICIZERS

CS
CHEMICAL SOLVENTS, INC.
60 PARK PLACE, NEWARK 2, N. J.
WOrth 2-7763 (N.Y.) Market 2-3650 (N.J.)

RESINS FOR ALUMINUM PAINTS

NEVILLE CHEMICAL COMPANY • Pittsburgh 25, Pa.
Manufacturers of Hydrocarbon Resins, Oils and Solvents

NEVILLE

AMMONIUM PERSULFATE
ANTHRANILIC ACID
COPPER OXYCHLORIDE
FORMALDEHYDE
PHTHALIC ACID
SACCHARIN
SODIUM BISULFATE, GLOBULAR
SODIUM CHLORITE
SODIUM SILICOFLUORIDE
ZINC AMMONIUM CHLORIDE
ZINC CHLORIDE

RN

MURRAY HILL 7-7267
RICNELCHEM N. Y.

RICHES-NELSON, INC.
Chemicals and Allied Products
342 MADISON AVENUE NEW YORK 17 N. Y.
European Affiliate
RICHES-NELSON S.P.R.L. 72 Ave. Brillat Savarin BRUXELLES BELGIUM

neowhite

THE *potent* FLUORESCENT WHITENER

by

FIBER CHEMICAL CORPORATION
Manufacturers of Chrome Chemicals
P. O. Box 218, MATAWAN, N. J. Tel.: LOwell 6-1100

MALONONITRILE

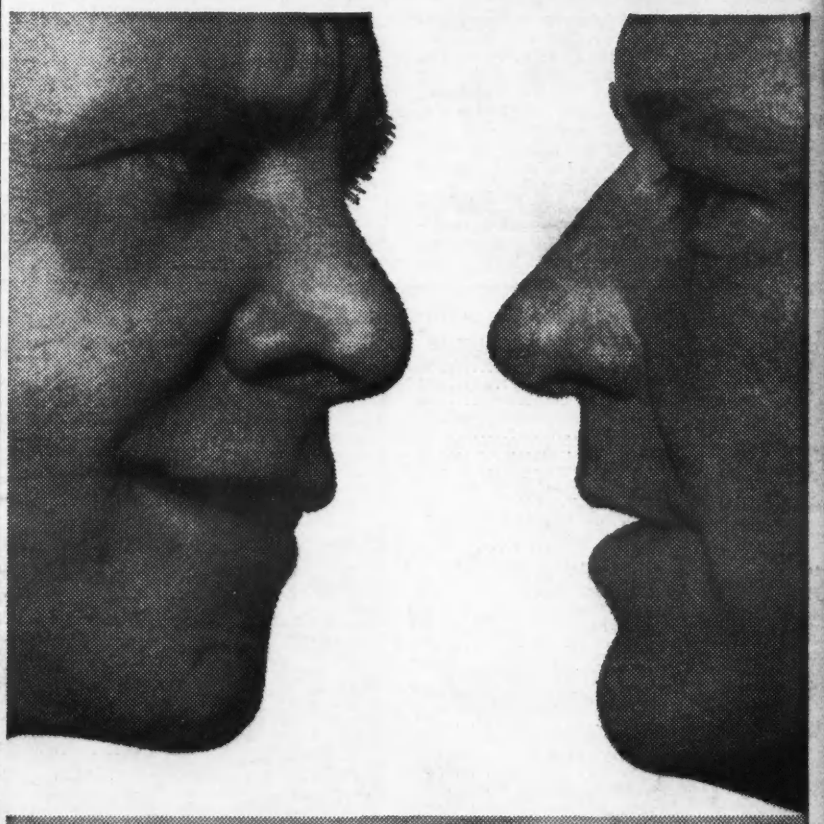
DIPHENYLACETONITRILE

MANUFACTURED BY

gamma chemical corporation
GREAT MEADOWS, N. J.

SOLE SALES AGENTS

Fisher chemical co., inc.
359 LEXINGTON AVE., NEW YORK 17, N. Y.
MURRAY HILL 2-2367
CABLE ADDRESS: PHARCHEM



"Heard about new, stabilized Celanese Formaldehyde? They ship at 15-20°F. lower than ever before. Saves heat in storage and shipment. Costs go down. Better end products, too."

Celanese®

Celanese CHEMICALS